

**Supplementary Table 1 - Distribution of PARP-1 protein in adult monkey brain (pia mater, cerebral cortex, and white matter).**

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Brain	Meninge				
	• Pia mater	Epithelial cells	Majority/strong	Some/unlabeled	-
		Connective tissue cells	Some/strong	Some/unlabeled	-
	Cerebral cortex				
	• Molecular layer	Neuroglial cells	Majority/unlabeled	Few/moderate	-
		Neurons	Majority/weak	Few/unlabeled	Present
	• Pyramidal layer	Neuroglial cells	Some/unlabeled	Few/weak	-
		Neurons	Majority/weak	Some/unlabeled	Present
	• Granular layer	Neuroglial cells	Some/moderate	Some/strong	-
		Neurons	Majority/weak	Few/moderate	Present
	• Polymorphic layer	Neuroglial cells	Majority/strong	Some/moderate	-
		Neurons	Majority/unlabeled	Few/weak	Present
	• Transition layer	Neuroglial cells	Majority/strong	Some/moderate	-
		Neurons	Majority/unlabeled	Few/weak	Present
	White matter	Neuroglial cells	Majority/moderate	Some/strong	-
		Neurons	Majority/unlabeled	Few/weak	-

**Supplementary Table 2 - Distribution of PARP-1 protein in adult monkey midbrain.**

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Midbrain		Neuroglial cells	Majority/strong	Some/moderate	-
		Neurons	Majority/weak	Few/moderate	Present
		Ependymal cells	Some/strong	some/moderate	Present

**Supplementary Table 3 - Distribution of PARP-1 protein in adult monkey cerebellum.**

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Cerebellum	Molecular layer	Neurons	Majority/weak	Few/moderate	-
	Purkinje layer	Purkinje cells	Some/strong	Some/moderate	Present
	Granular layer	Neurons	Majority/unlabeled	Few/strong	-
	White matter	Neuroglial cells	Majority/strong	Some/moderate	-

**Supplementary Table 4 - Distribution of PARP-1 protein in adult monkey pituitary.**

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Pituitary	Pars distalis	Glandular epithelial cells	Majority/strong	Some/moderate	Present
	Pars intermedia	Follicular cells	Majority/strong	Few/moderate	-
	Pars nervosa	Pituicytes	Majority/moderate	Few/weak	-

**Supplementary Table 5 - Distribution of PARP-1 protein in adult monkey mammary gland.**

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Mammary gland	Glandular tissue	Epithelial glandular cells	Majority/strong	Some/moderate	Present
		Ductal epithelial cells	Majority/moderate	Some/weak	Present
		Myoepithelial cells	Majority /unlabeled	Few/weak	-
	Connective tissue	Fibrocytes	Majority/unlabeled	Some/weak	-

**Supplementary Table 6 - Distribution of PARP-1 protein in adult monkey breast skin.**

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Breast skin	Epidermis	Epithelial cells	Majority/moderate	Some/unlabeled	Present
	Dermis	Fibrocytes	Majority/unlabeled	Few/weak	-
		• Hair follicles	Majority/unlabeled	Few/weak	-
		Cuticle cells	All/unlabeled	-	-
		Root sheath cells	Majority/moderate	Some/strong	Present
		Glassy membrane cells	All/unlabeled	-	-
	• Arrector pili muscle	Muscle cells	All/strong	-	Present
					-
	• Sebaceous gland	Basal cells	Majority/strong	Few/moderate	Present
		Immature secretory cells	All/moderate	-	Present
		Mature secretory cells	Majority/weak	Few/unlabeled	Present
		Degenerating secretory cells	All/unlabeled	-	Present
	• Sweat gland	Secretory cells	Some/strong	Some/unlabeled	Present
		Myoepithelial cells	All/unlabeled	-	Unclear

Supplementary Table 7 - Distribution of PARP-1 protein in adult monkey skin.

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Skin	Epidermis	Epithelial cells	Majority/unlabeled	Some/moderate	Present
	Dermis				
	• Hair follicles	Hair cells	All/unlabeled	-	-
		Cuticle cells	All/unlabeled	-	-
		Root sheath cells	Majority/strong	Few/weak	-
		Glassy membrane cells	All/unlabeled	-	Unclear
	• Sebaceous gland	Basal cells	Majority/strong	Few/moderate	-
		Immature secretory cells	All/moderate	-	-
		Mature secretory cells	All/weak	-	-
		Degenerating secretory cells	All/unlabeled	-	-
	• Sweat gland	Secretory cells	Some/strong	Some/unlabeled	Present
		Myoepithelial cells	All/unlabeled	-	Unclear

**Supplementary Table 8 - Distribution of PARP-1 protein in adult monkey ovary.**

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Ovary	Primordial follicles	Oocytes	All/strong	-	Present
		Squamous epithelial cells	Majority/moderate	Few/unlabeled	Unclear
	Primary follicles	Oocytes	Majority/strong	Few/unlabeled	Present
		Cuboidal granulosa cells	Majority/strong	Some/moderate	Unclear
	Small second (growing) primary follicles	Oocytes	Majority /moderate	Few/strong	Present
		Granulosa cells	Majority/strong	Few/moderate	Present
		Theca interna cells	Majority/unlabeled	Few/moderate	-
	Large second primary (growing) follicles	Oocytes	Majority/strong	Some/moderate	Present
		Granulosa cells	Majority/strong	Some/moderate	Present
		Theca interna cells	Majority/strong	Few/unlabeled	Present
	Secondary (vesicular) follicles	Granulosa cells	Majority/strong	Some/moderate	Present
		Theca interna	Majority/strong	Some/moderate	Present
		Theca externa	Majority/strong	Some/moderate	Present
	Atretic follicles	Granulosa cells	Majority/strong	Some/unlabeled	Present
	Stroma	Fibrocytes	Majority/unlabeled	Some/moderate	-
	Corpus luteum	Granulosa lutein cells	Some/moderate	Some/unlabeled	-
	Capillaries	Endothelial cells	Majority/unlabeled	Few/weak	Present

Supplementary Table 9 - Distribution of PARP-1 protein in adult monkey testis.

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Testis	Seminiferous tubule	Elongated spermatids	All/unlabeled	-	-
		Round spermatids	Majority/strong	Few/unlabeled	-
		Spermatocytes	Some/unlabeled	Some/moderate	-
		Spermatogonia	Some/moderate	Some/unlabeled	-
		Sertoli cells	All/unlabeled	-	-
	Connective tissue	Leydig cells	Majority/unlabeled	Few/moderate	-

Supplementary Table 10 - Distribution of PARP-1 protein in adult monkey efferent ductules.

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Efferent Ductules		Pseudostratified epithelial cells	Some/moderate	Some/unlabeled	Present

Supplementary Table 11 - Distribution of PARP-1 protein in adult monkey epididymis.

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Epididymis	Head				
	• Pseudostratified	Principal cells	Majority/strong	Some/unlabeled	Present
	Columnar	Basal cells	Majority/weak	Some/unlabeled	Present
	Epithelium				
	Body				
	• Pseudostratified	Principal cells	Majority/strong	Some/moderate	Present
	Columnar	Basal cells	Majority/weak	Few/strong	Present
	Epithelium				
	Tail				
	• Pseudostratified	Principal cells	Some/strong	Some/weak	Present
	Columnar	Basal cells	All/weak	-	Present
	Epithelium				
	Muscular layer	Smooth muscle cells	Majority/unlabeled	Some/strong	Present
	Blood vessels				
	Tunica intima	Epithelial cells	Majority/unlabeled	Few/weak	Present
	Tunica media	Smooth muscle cells	Majority/unlabeled	Few/weak	Present

**Supplementary Table 12 - Distribution of PARP-1 protein in adult monkey seminal vesicle.**

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Seminal vesicle	Terminal ganglia	Neurons	Majority/strong	Few/moderate	Present
		Satellite cells	Some/strong	Some/unlabeled	-
	Glandular epithelium	Glandular epithelial cells	Some/strong	Some/unlabeled	Present
		Stromal cells	Majority/unlabeled	Few/strong	-
	Smooth muscle	Smooth muscle cells	Majority/strong	Some/unlabeled	Present

**Supplementary Table 13 - Distribution of PARP-1 protein in adult monkey prostate.**

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Prostate	Cranial lobe	Epithelial cells	Some/weak	Some/unlabeled	-
		Stromal cells	Some/unlabeled	Some/strong	Present
	Caudal lobe	Epithelial cells	Majority/unlabeled	Few/weak	-
		Stromal cells	Some/strong	Some/unlabeled	Present



Supplementary Table 14 - Distribution of PARP-1 protein in adult monkey adrenal.

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Adrenal	Cortex (male)	Zona glomerulosa cells	Majority/strong	Few/moderate	Present
		Zona fasciculata cells	Majority/strong	Some/moderate	Present
		Zona reticularis cells	Some/strong	Some/unlabeled	Present
	Medulla (male)	Chromaffin Cells	Majority/strong	Few/unlabeled	Present
	Cortex (female)	Zona glomerulosa cells	Majority/strong	Some/moderate	-
		Zona fasciculata cells	Some/strong	Some/weak	Present
		Zona reticularis cells	Majority/unlabeled	Some/weak	-
	Medulla (female)	Chromaffin cells	Some/strong	Some/weak	Present

Supplementary Table 15 - Distribution of PARP-1 protein in adult monkey pancreas.

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Pancreas	Serous acini	Secretory cells	Majority/strong	Some/unlabeled	-
	Langerhans’s islet	Langerhans cells	Majority/strong	Some/moderate	Present
	Intralobular ducts	Cuboidal ductal cells	Majority/moderate	Few/unlabeled	Present
	interlobular ducts	Cuboidal ductal cells	Majority/moderate	Some/unlabeled	Present
	Ganglion	Neurons	All/moderate	-	Present
		Satellite cells	Majority/strong	Few/unlabeled	-

Supplementary Table 16 - Distribution of PARP-1 protein in adult monkey stomach.

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Stomach	Gastric pits	Surface mucous cells	Majority/unlabeled	Some/weak	Present
		Parietal cells	Majority/strong	Few/moderate	-
	Fundic glands	Mucous neck cells	Some/moderate	Some/unlabeled	Present
		Parietal cells	Some/moderate	Some/strong	-
		Chief cells	Majority/unlabeled	Few/strong	-
	Muscularis mucosa	Smooth muscle cells	Some/weak	Some/unlabeled	Present
	Lamina propria	Fibrocytes	Majority/unlabeled	Few/weak	Present
	Blood vessels	Epithelial cells	Majority/unlabeled	Few/weak	Present

Supplementary Table 17 - Distribution of PARP-1 protein in adult monkey heart.

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Heart	Ventricle	Striated muscle cells	Majority/moderate	Some/unlabeled	Present
	Atrium	Striated muscle cells	Some/strong	Some/unlabeled	Present

Supplementary Table 18 - Distribution of PARP-1 protein in adult monkey lungs.

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Lung	Alveoli	Type I pneumocytes	Some/strong	Some/unlabeled	Present
		Type II pneumocytes	-	-	-
		Macrophages	All/unlabeled	-	Present
	Capillaries	Endothelial cells	Majority/unlabeled	Few/weak	Present
	Bronchiole	Cuboidal epithelial cells	Majority/weak	Few/moderate	Present
		Smooth muscle cell	Majority/unlabeled	Few/weak	Present
	Bronchi	Ciliated columnar cells	Majority/moderate	Few/unlabeled	-
		Goblet cells	All/unlabeled	-	-
		Smooth muscle cells	Majority/unlabeled	Few/weak	Present
		Fibrocytes	Majority/unlabeled	Few/weak	-
		Chondrocytes	Some/strong	Some/unlabeled	-

Supplementary Table 19 - Distribution of PARP-1 protein in adult monkey salivary glands.

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Salivary glands	Serous acini	Serous cells	Majority/unlabeled	Few/weak	-
	Intralobular ducts	Striated duct columnar cells	Majority/moderate	Some/unlabeled	Present
		Intercalated duct cells	All/weak	-	Present
	Excretory duct	Tall columnar epithelial cells	Majority/moderate	Some/unlabeled	Present
		Goblet cells	Majority/unlabeled	Few/weak	-
	Blood vessels	Endothelial cells	Majority/unlabeled	Few/weak	Present

Supplementary Table 20 - Distribution of PARP-1 protein in adult monkey spleen.

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Spleen	White pulp				
	• Germinal center	B Lymphocytes	Majority/strong	Some/unlabeled	-
	• Mantle Zone	B Lymphocytes	Majority/weak	Few/moderate	-
	• Marginal Zone	B Lymphocytes	Majority/weak	Some/unlabeled	-
	• Central arterioles	Endothelial cells	All/unlabeled	-	-
	• Periarterial lymphatic sheath	T Lymphocytes	Majority/moderate	Some/weak	-
	Red pulp	Lymphocytes	Majority/unlabeled	Some/strong	-
	• Splenic sinusoid	Endothelial cells	Majority/unlabeled	Few/weak	-

Supplementary Table 21 - Distribution of PARP-1 protein in adult monkey thymus.

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Thymus	Cortex	Lymphocytes	Majority/unlabeled	Few/strong	-
	Medulla	Lymphocytes	Majority/strong	Some/weak	-
		Epithelial reticular cells	Majority/unlabeled	Few/moderate	-
	• Hassall’s corpuscles	Epithelial cells	All/unlabeled	-	-

**Supplementary Table 22 - Distribution of PARP-1 protein in adult monkey urinary bladder.**

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Urinary Bladder	Transitional epithelium	Epithelial cells	Majority/weak	Few/unlabeled	Present
	Lamina propria	Fibrocytes	Some/moderate	Some/unlabeled	-
	Muscularis externa	Smooth muscle cells	Majority/strong	Few/unlabeled	Present

**Supplementary Table 23 - Distribution of PARP-1 protein in adult monkey uterus.**

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Uterus	Ectocervix				
	• Squamous epithelium	Epithelial cells	Majority/strong	Some/unlabeled	Present
	• Glandular epithelium	Glandular epithelial cells	Majority/unlabeled	Some/strong	-
	• Lamina propria	Fibrocytes	Some/unlabeled	Some/strong	Present
	Endocervix				
	• Columnar epithelium	Epithelial cells	Majority/unlabeled	Some/strong	-
	• Glandular epithelium	Glandular epithelial cells	Some/unlabeled	Some/strong	Present
	• Lamina propria	Fibrocytes	Some/unlabeled	Some/strong	-
	Transformation zone				
	• Squamous epithelium	Epithelial cells	Majority/moderate	Few/strong	Present
	• Glandular epithelium	Glandular epithelial cells	Majority/unlabeled	Few/moderate	-
	Endometrium				
	• Columnar epithelium	Epithelial cells	Some/moderate	Some/unlabeled	Present
	• Stroma	Stromal cells	Majority/strong	Some/unlabeled	-

	• Glandular epithelium	Glandular epithelial cells	Majority/strong	Some/unlabeled	Present
	Terminal ganglion	Neurons	Majority/weak	Some/unlabeled	Present
		Satellite cells	Majority/unlabeled	Some/strong	-
	Myometrium	Smooth muscle cells	Majority/moderate	Some/unlabeled	Present
	Blood vessels				
	• Tunica intima	Endothelial cells	Majority/unlabeled	Few/weak	-
	• Tunica media	Smooth muscle cells	Majority/unlabeled	Few/weak	Present
	• Tunica adventitia	Fibrocytes	All/unlabeled	-	-

**Supplementary Table 24 - Distribution of PARP-1 protein in adult monkey thyroid.**

Organ	Histological location	Cell type	Nuclear staining (proportion of cells/staining intensity)		Cytoplasmic staining
			Main observation	Secondary observation	
Thyroid	Follicles	Follicular cells	Majority/unlabeled	Few/moderate	Present
	Parafollicles	Parafollicular cells	All/unlabeled	-	Present
	Blood vessels	Endothelial cells	Some/weak	Some/unlabeled	Present