

Product datasheet for **CF804938**

PARP1 Mouse Monoclonal Antibody [Clone ID: OTI5F1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5F1
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PARP1 (NP_001609) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	112.9 kDa
Gene Name:	poly(ADP-ribose) polymerase 1
Database Link:	NP_001609 Entrez Gene 11545 Mouse Entrez Gene 25591 Rat Entrez Gene 142 Human P09874



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Background:

This gene encodes a chromatin-associated enzyme, poly(ADP-ribose)transferase, which modifies various nuclear proteins by poly(ADP-ribose)ation. The modification is dependent on DNA and is involved in the regulation of various important cellular processes such as differentiation, proliferation, and tumor transformation and also in the regulation of the molecular events involved in the recovery of cell from DNA damage. In addition, this enzyme may be the site of mutation in Fanconi anemia, and may participate in the pathophysiology of type I diabetes. [provided by RefSeq, Jul 2008]

Synonyms:

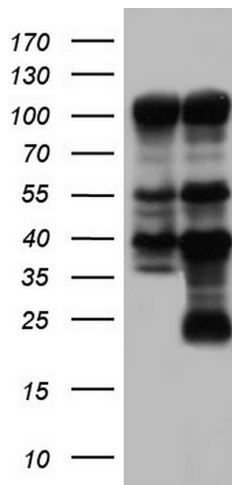
ADPRT; ADPRT 1; ADPRT1; ARTD1; pADPRT-1; PARP; PARP-1; PPOL

Protein Families:

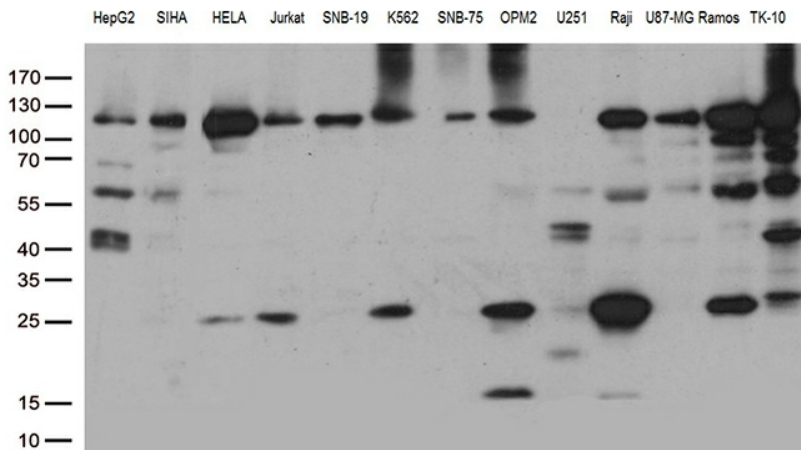
Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Protein Pathways:

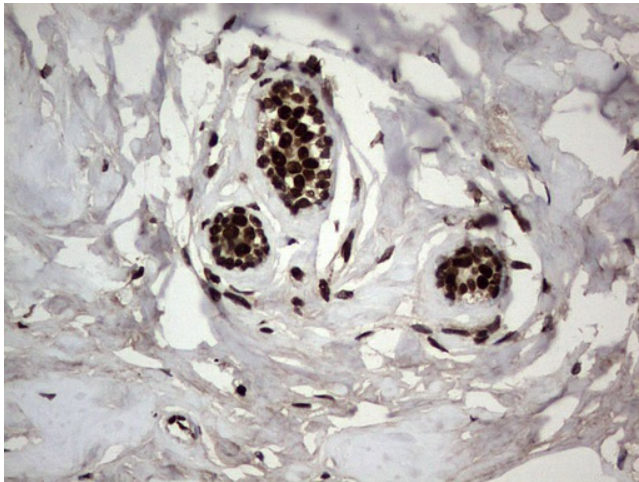
Base excision repair

Product images:


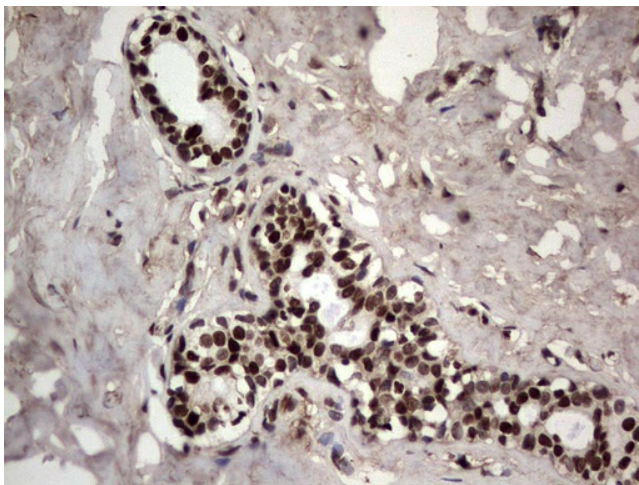
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PARP1 (Cat# [RC207085], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PARP1 (Cat# [TA804938]). Positive lysates [LY400609] (100ug) and [LC400609] (20ug) can be purchased separately from OriGene.



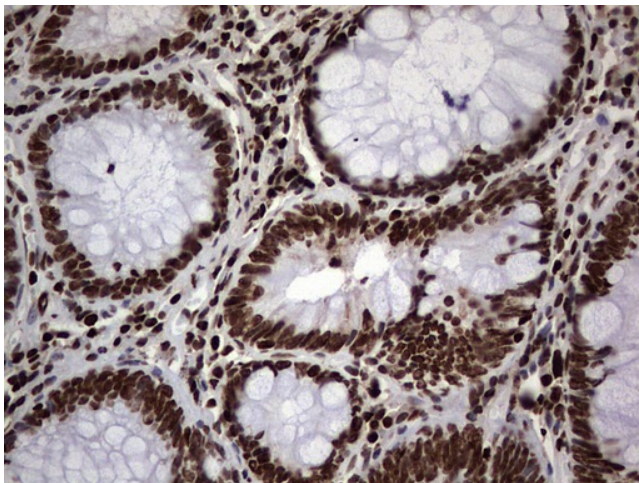
Western blot analysis of extracts (50ug per lane) from 13 cell lines lysates by using anti-PARP1 monoclonal antibody([TA804938])



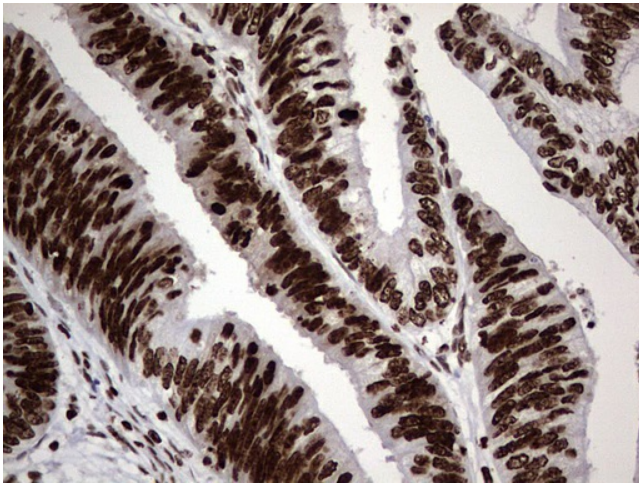
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



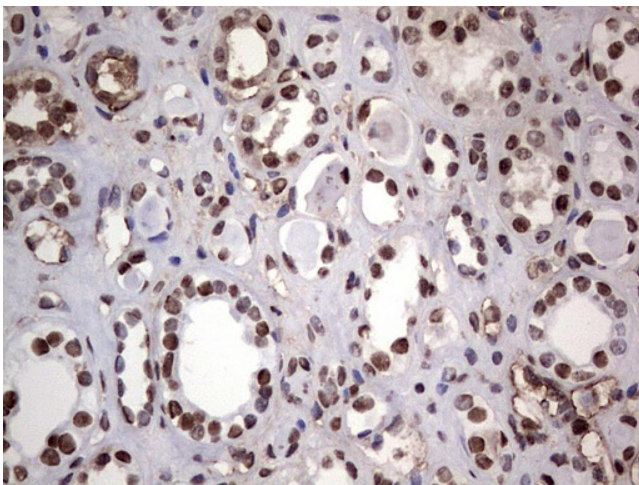
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



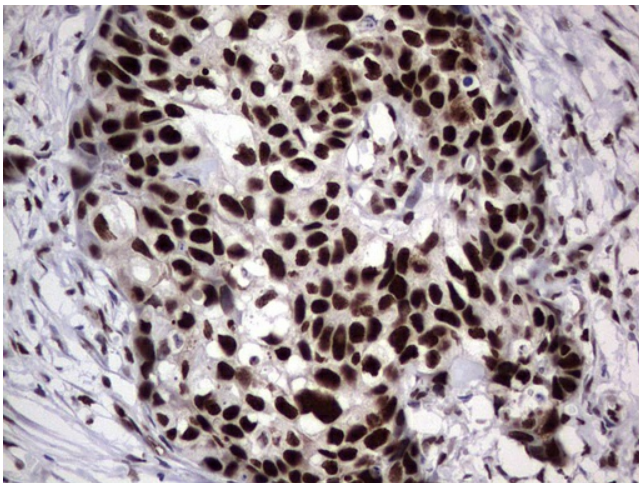
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



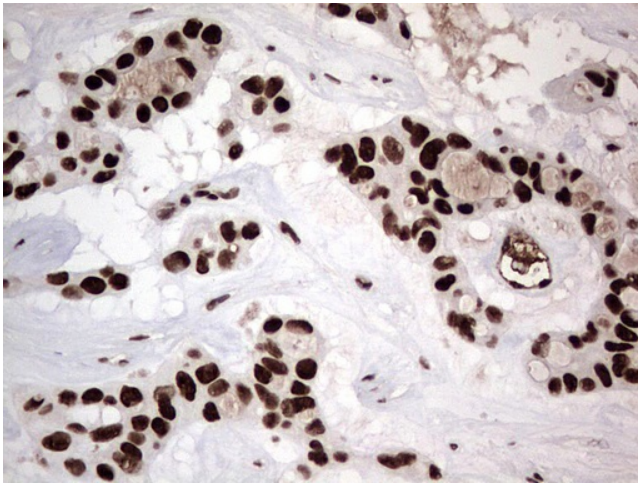
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



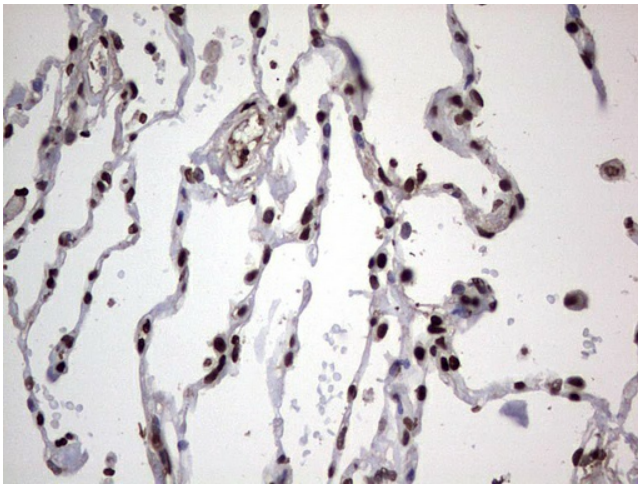
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



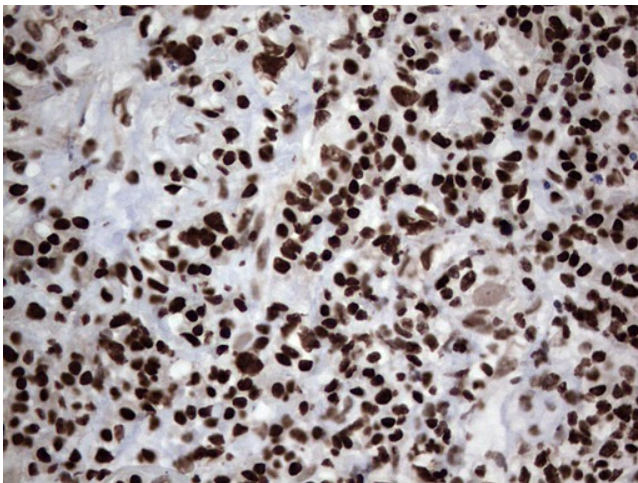
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



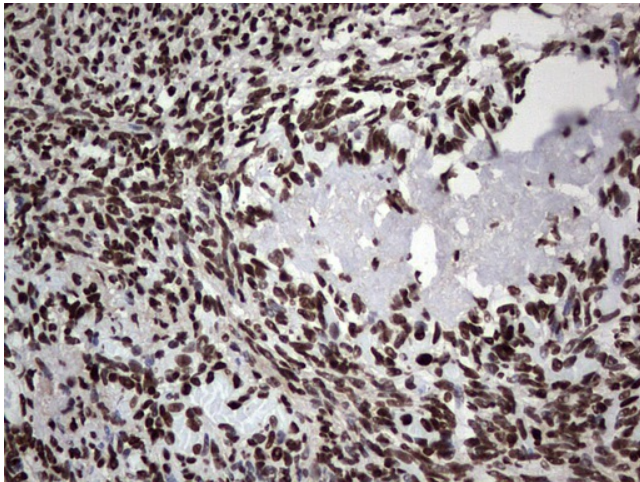
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



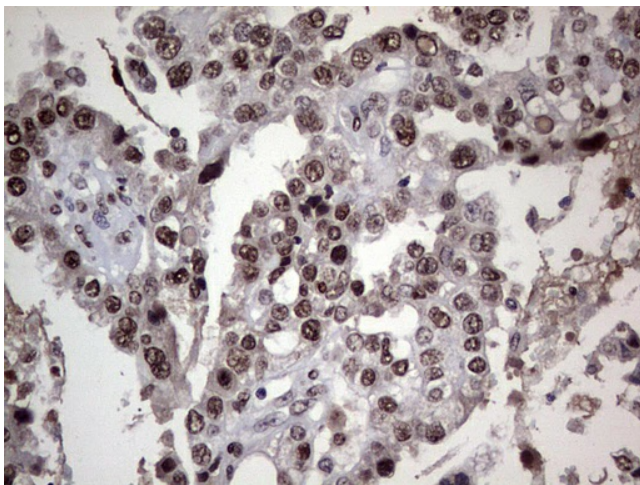
Immunohistochemical staining of paraffin-embedded Human lung tissue within the normal limits using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



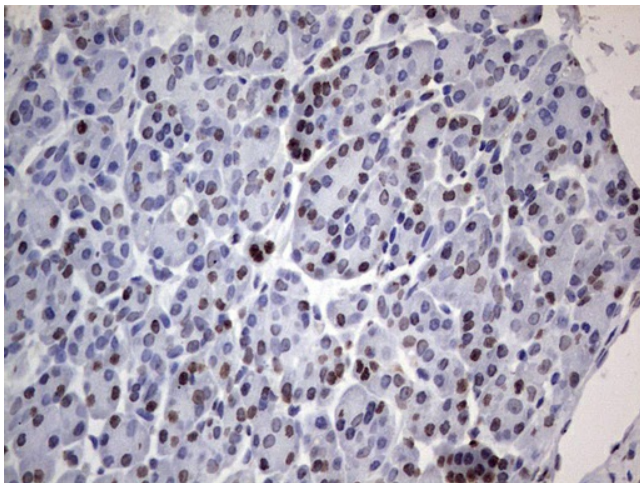
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



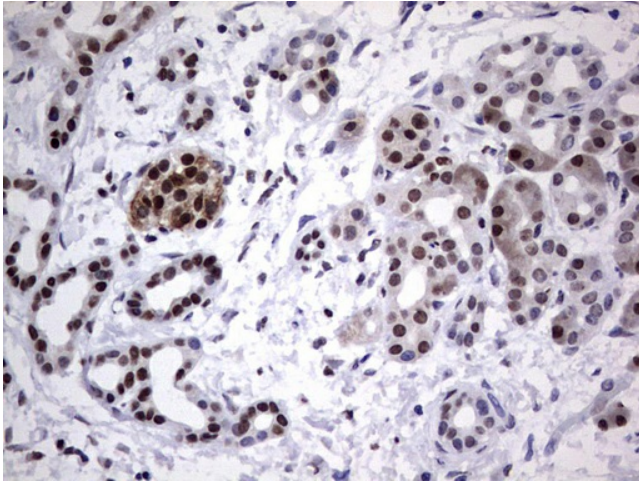
Immunohistochemical staining of paraffin-embedded Human Ovary tissue within the normal limits using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



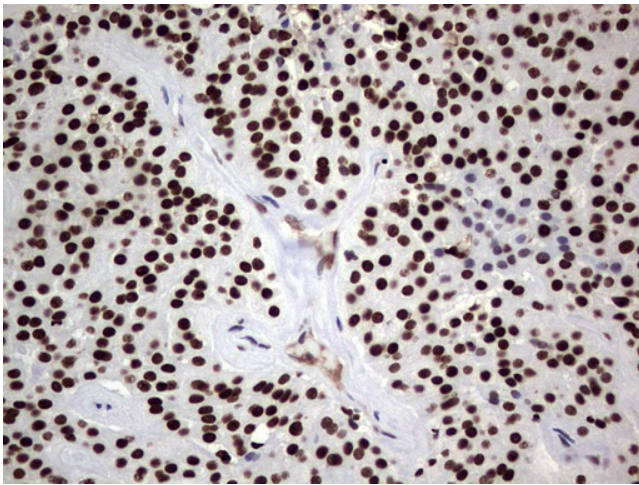
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



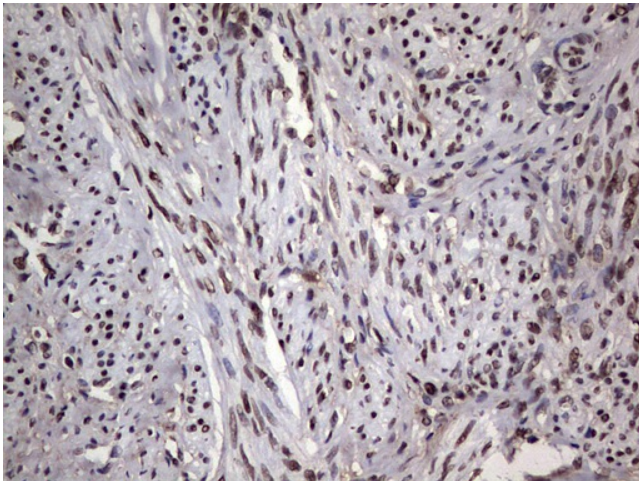
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



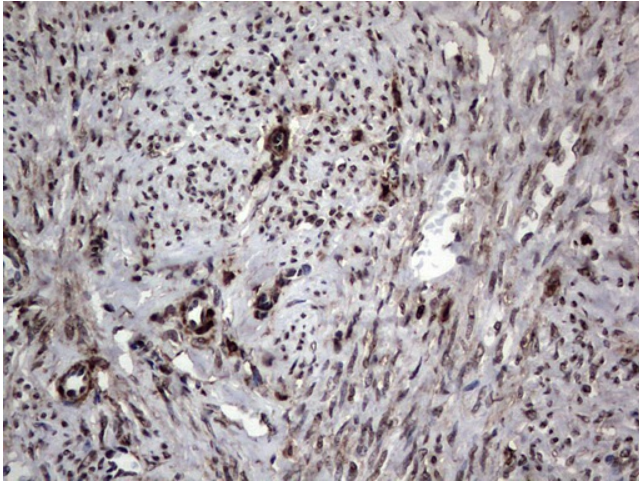
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



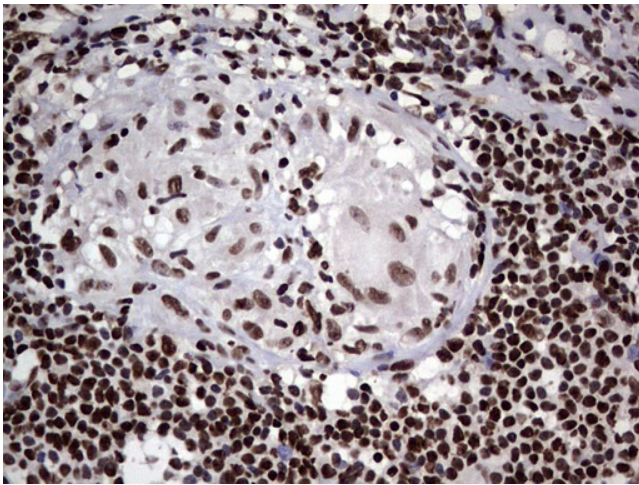
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



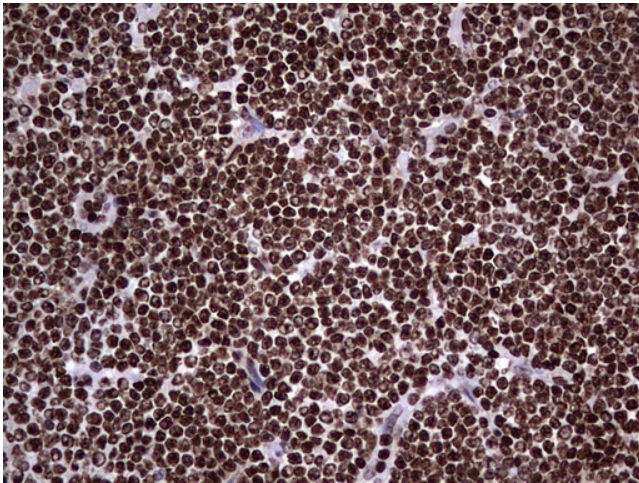
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



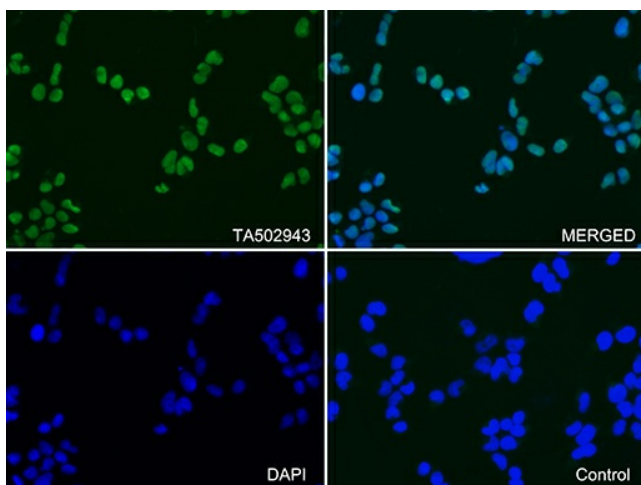
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-PARP1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804938]) (1:150)



Immunofluorescent staining of 293T cells using anti-PARP1 mouse monoclonal antibody ([TA804938], green, upper left; merged, upper right) or Isotype control (merged, lower right). Cell nuclei were stained with DAPI (blue, lower left) (1:100).