

APIP Monoclonal Antibody (19F461)

Catalog NumberMA1-41247

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse
Host/Isotope	Mouse / IgG2b, kappa	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody		
Clone	19F461	Immunohistochemistry (Paraffin) (IHC (P))	5 µg/mL
Immunogen	Recombinant APIP protein.	Western Blot (WB)	1-2 µg/mL
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	0.5 mg/mL		
Purification	Protein G		
Storage buffer	PBS with 0.05% BSA		
Contains	0.05% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Suggested positive control: HeLa or 293, antigen standard for APIP (transient overexpression lysate).

Background/Target Information

The mammalian homologues of the key cell death gene CED-4 in *C. elegans* has been identified recently from human and mouse and designated Apaf 1 (for apoptosis protease-activating factor 1). Apaf 1 binds to cytochrome c (Apaf 2) and Caspase-9 (Apaf 3), which leads to Caspase-9 activation. Activated Caspase-9 in turn cleaves and activates Caspase-3 that is one of the key proteases, being responsible for the proteolytic cleavage of many key proteins in apoptosis. Recently, Cho et al (4) have identified a new Apaf 1 Interacting Protein (APIP) also known as CG129 and MMRP19, as a negative regulator of ischemic injury. APIP competes with Caspase-9 binding site of Apaf 1. APIP is predicted to code for a 204 amino acid. An isoform of APIP, APIP2 encodes a 242 amino acid protein, which is an alternative splicing variant differing in its N-terminus from APIP. APIP transcript is ubiquitously expressed in most adult tissue with high expression in skeletal muscle, heart, and kidney.

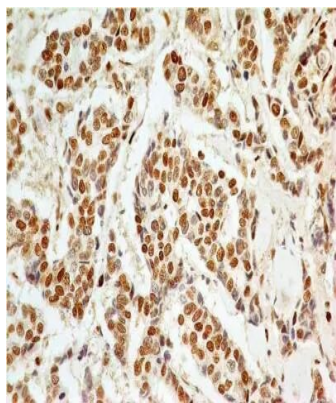
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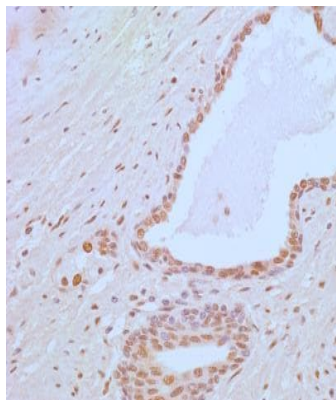
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## Product Images For APIP Monoclonal Antibody (19F461)



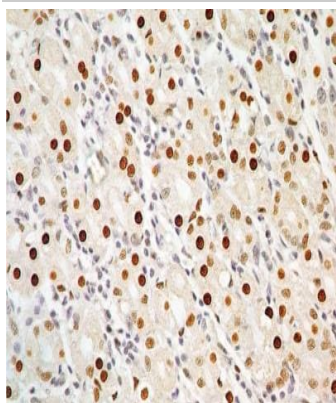
### APIP Antibody (MA1-41247) in IHC (P)

Immunohistochemical analysis of APIP in formalin-fixed, paraffin-embedded adenocarcinoma of the breast. Samples were incubated in APIP monoclonal antibody (Product # MA1-41247) using a dilution of 5 µg/mL followed by peroxidase-conjugate and DAB chromogen. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



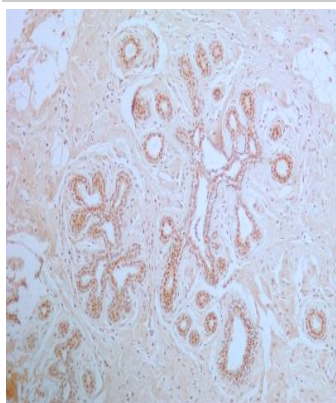
### APIP Antibody (MA1-41247) in IHC (P)

Immunohistochemical analysis of APIP in a section of normal prostate from human. Samples were incubated in APIP monoclonal antibody (Product # MA1-41247) using a dilution of 5 µg/mL. The tubuloalveolar glands in prostate section depicted APIP positivity in the cytoplasm and nuclei of the epithelial cells. The fibro-muscular stroma showed an overall weak staining with intense nuclear positivity in some cells.



### APIP Antibody (MA1-41247) in IHC (P)

Immunohistochemical analysis of APIP in formalin-fixed, paraffin-embedded human stomach. Samples were incubated in APIP monoclonal antibody (Product # MA1-41247) using a dilution of 5 µg/mL followed by peroxidase-conjugate and DAB chromogen. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



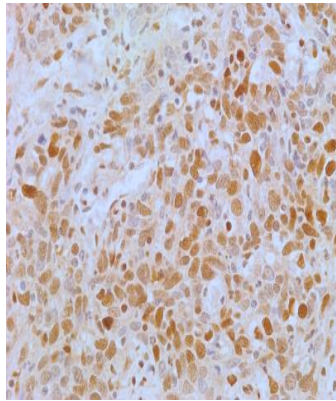
### APIP Antibody (MA1-41247) in IHC (P)

Immunohistochemical analysis of APIP in a section of normal human breast tissue. Samples were incubated in APIP monoclonal antibody (Product # MA1-41247) using a dilution of 5 µg/mL. The breasts ductal/acinar epithelial cells showed strong cytoplasmic as well as nuclear expression, whereas the myoepithelial cells and the intra-lobular connective tissue depicted very weak to negligible APIP positivity.

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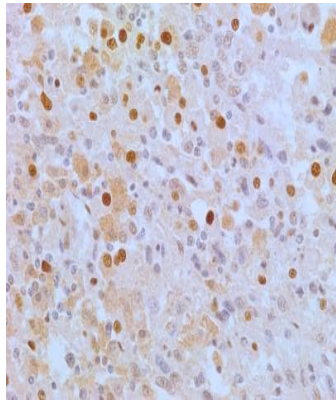
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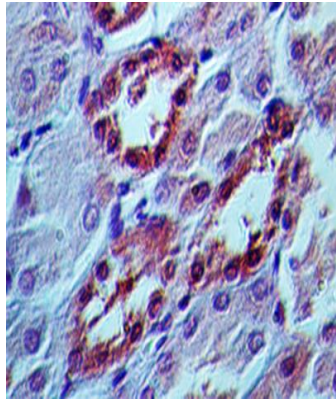
#### APIP Antibody (MA1-41247) in IHC (P)

Immunohistochemical analysis of APIP in human lung cancer tissue section. Samples were incubated in APIP monoclonal antibody (Product # MA1-41247) using a dilution of 5 µg/mL. The representative image shows a nuclear and cytoplasmic staining pattern of APIP expression in lung cancer cells.



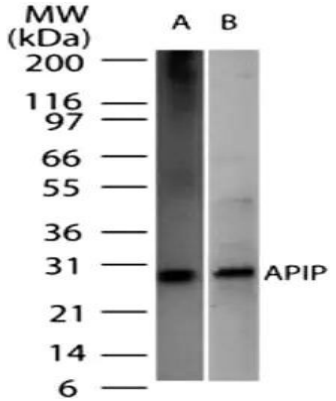
#### APIP Antibody (MA1-41247) in IHC (P)

Immunohistochemical analysis of APIP in human renal cancer tissue section. Samples were incubated in APIP monoclonal antibody (Product # MA1-41247) using a dilution of 5 µg/mL. The representative image shows a nuclear and cytoplasmic staining pattern of APIP expression in cancer cells.



#### APIP Antibody (MA1-41247) in IHC (P)

Immunohistochemical analysis of APIP in formalin-fixed paraffin-embedded human kidney tissue. Samples were incubated in APIP monoclonal antibody (Product # MA1-41247) using a dilution of 5 µg/mL.



#### APIP Antibody (MA1-41247) in WB

Western blot analysis of APIP in (A) recombinant protein and (B) HeLa cell lysate. Samples were incubated in APIP monoclonal antibody (Product # MA1-41247) using a dilution of 2 µg/mL.

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