

Product datasheet for **TA336411**

APIP Mouse Monoclonal Antibody [Clone ID: 19F461]

Product data:

Product Type:	Primary Antibodies
Clone Name:	19F461
Applications:	IHC, WB
Recommended Dilution:	Immunohistochemistry-Paraffin, Immunohistochemistry: 5 ug/ml, Western Blot: 1-2 ug/ml
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b, kappa
Clonality:	Monoclonal
Immunogen:	The antibody was developed against a full-length His-tagged recombinant APIP.
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	APAF1 interacting protein
Database Link:	NP_057041 Entrez Gene 51074 Human Q96GX9



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Background:

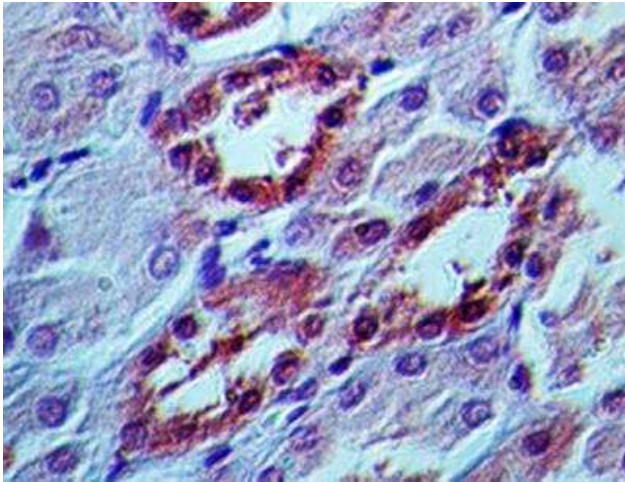
The mammalian homologues of the key cell death gene CED-4 in *C. elegans* has been identified recently from human and mouse and designated Apaf1 (for apoptosis protease-activating factor 1). Apaf1 binds to cytochrome c (Apaf2) and caspase-9 (Apaf3), which leads to caspase-9 activation. Activated caspase-9 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 apoptosis³. Recently, Cho et al have identified a new Apaf-1 Interacting Protein (APIP) also known as CGI29 and MMRP19, as a negative regulator of ischemic injury. APIP competes with Caspase-9 binding site of Apaf1. 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.

Synonyms:

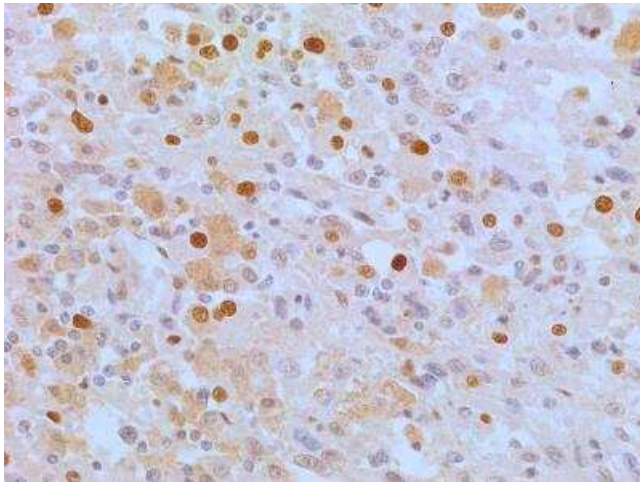
APIP2; CGI-29; CGI29; hAPIP; MMRP19

Protein Pathways:

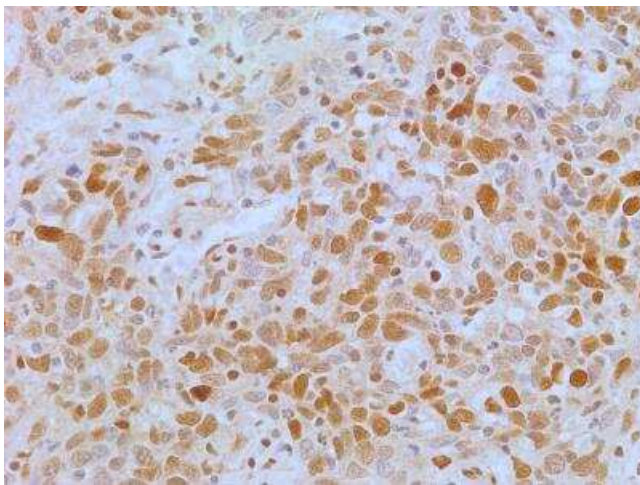
Cysteine and methionine metabolism, Metabolic pathways

Product images:

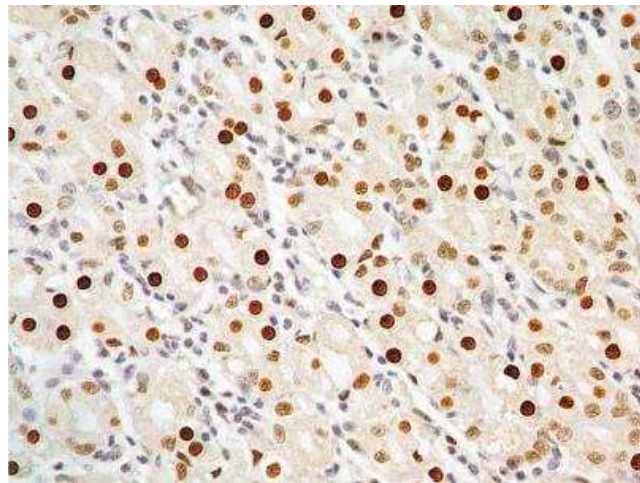
Immunohistochemistry-Paraffin: APIP Antibody (19F461) TA336411 - Analysis of formalin-fixed paraffin-embedded human kidney tissue using APIP antibody at 5 ug/ml concentration.



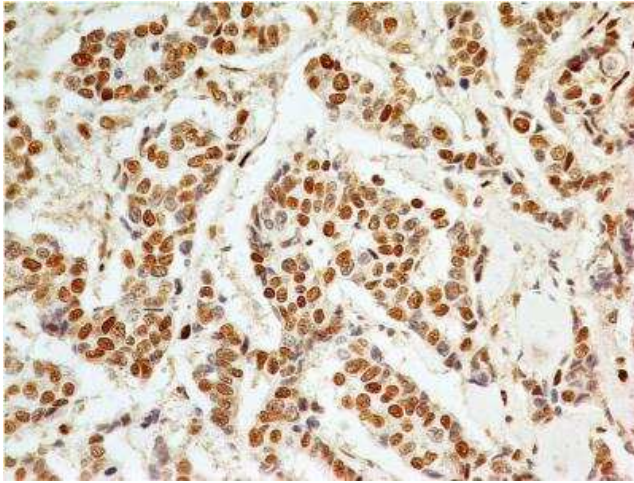
Immunohistochemistry-Paraffin: APIP Antibody (19F461) TA336411 - Analysis of human renal cancer tissue section using APIP antibody (clone 19F461) at a concentration of 5 ug/ml. The representative image shows a nuclear and cytoplasmic staining pattern of APIP expression in cancer cells.



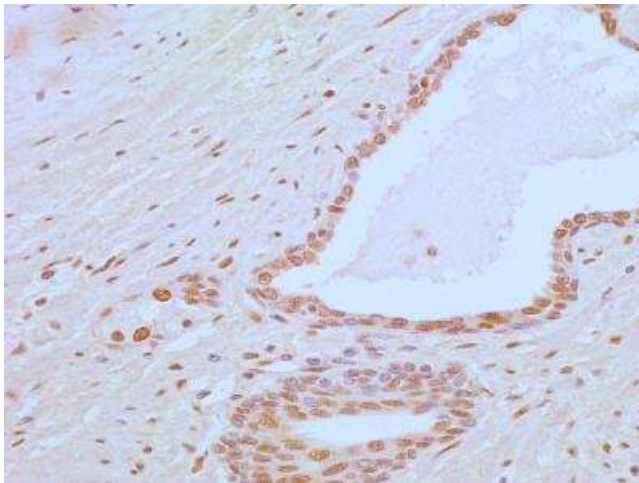
Immunohistochemistry-Paraffin: APIP Antibody (19F461) TA336411 - Analysis of human lung cancer tissue section using APIP antibody (clone 19F461) at a concentration of 5 ug/ml. The representative image shows a nuclear and cytoplasmic staining pattern of APIP expression in lung cancer cells.



Immunohistochemistry-Paraffin: APIP Antibody (19F461) TA336411 - Formalin-fixed, paraffin-embedded human stomach stained with APIP antibody (5 ug/ml), 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.



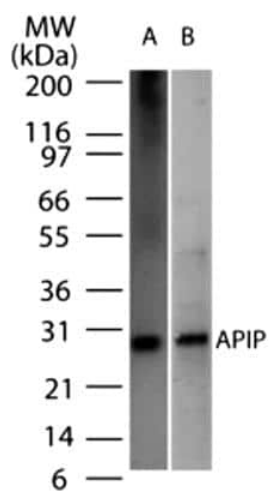
Immunohistochemistry-Paraffin: APiP Antibody (19F461) TA336411 - Formalin-fixed, paraffin-embedded adenocarcinoma of the breast stained with APiP antibody (5 ug/ml), peroxidase-conjugate and DAB chromogen. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



Immunohistochemistry-Paraffin: APiP Antibody (19F461) TA336411 - Analysis of APiP in a section of normal prostate from human using 5 ug/ml concentration of APiP antibody (clone 19F461). 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.



Immunohistochemistry-Paraffin: APiP Antibody (19F461) TA336411 - Detection of APiP in a section of normal human breast tissue using APiP antibody (clone 19F461) at a concentration of 5 ug/ml. The breast's 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.



Western Blot: APIP Antibody (19F461) TA336411 - Analysis of APIP2 in (A) recombinant protein and (B) HeLa cell lysate using APIP antibody at 2 ug/ml.