

APIP Antibody
Rabbit Polyclonal Antibody
Catalog # ALS12063**Specification**

APIP Antibody - Product Information

Application	WB, IHC
Primary Accession	O96GX9
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27kDa KDa

APIP Antibody - Additional Information**Gene ID** 51074**Other Names**

Methylthioribulose-1-phosphate dehydratase {ECO:0000255|HAMAP-Rule:MF_03116}, MTRu-1-P dehydratase {ECO:0000255|HAMAP-Rule:MF_03116}, 4.2.1.109 {ECO:0000255|HAMAP-Rule:MF_03116}, APAF1-interacting protein {ECO:0000255|HAMAP-Rule:MF_03116}, hAPIP, APIP {ECO:0000255|HAMAP-Rule:MF_03116}

Target/Specificity

A full-length His-tagged recombinant APIP protein.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

APIP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

APIP Antibody - Protein Information**Name** APIP {ECO:0000255|HAMAP-Rule:MF_03116}**Function**

Catalyzes the dehydration of methylthioribulose-1-phosphate (MTRu-1-P) into 2,3-diketo-5-methylthiopentyl-1-phosphate (DK-MTP-1-P). Functions in the methionine salvage pathway, which plays a key role in cancer, apoptosis, microbial proliferation and inflammation. May inhibit the CASP1-related inflammatory response (pyroptosis), the CASP9-dependent apoptotic pathway and the cytochrome c-dependent and APAF1-mediated cell death.

Cellular Location

Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03116, ECO:0000269|PubMed:15262985, ECO:0000269|PubMed:23285211}

Tissue Location

Isoform 1 is ubiquitously expressed. Isoform 2 is expressed at lower levels and detected in heart, brain, pancreas, liver, placenta, skeletal muscle and kidney

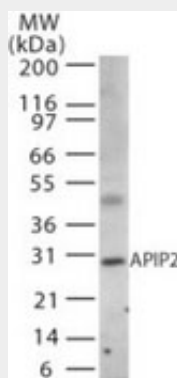
Volume

50 μ l

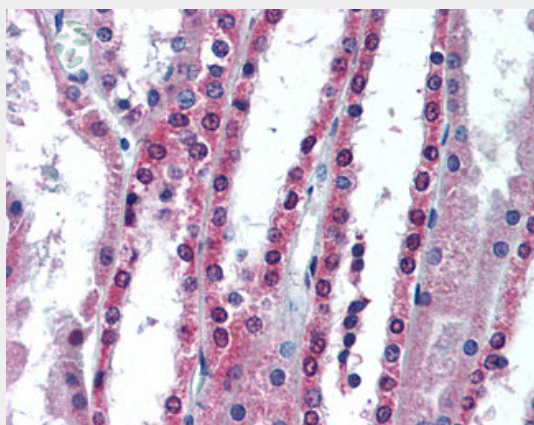
APIP Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

APIP Antibody - Images

Western blot of APIP2 in human muscle using antibody at 2 ug/ml.



Anti-APIP antibody IHC of human kidney.

APIP Antibody - Background

Catalyzes the dehydration of methylthioribulose-1- phosphate (MTRu-1-P) into 2,3-diketo-5-methylthiopentyl-1- phosphate (DK-MTP-1-P). Functions in the methionine salvage

pathway, which plays a key role in cancer, apoptosis, microbial proliferation and inflammation. May inhibit the CASP1-related inflammatory response (pyroptosis), the CASP9-dependent apoptotic pathway and the cytochrome c-dependent and APAF1-mediated cell death.

APIP Antibody - References

Lai C.-H., et al. *Genome Res.* 10:703-713(2000).
Ota T., et al. *Nat. Genet.* 36:40-45(2004).
Taylor T.D., et al. *Nature* 440:497-500(2006).
Cho D.-H., et al. *J. Biol. Chem.* 279:39942-39950(2004).
Burkard T.R., et al. *BMC Syst. Biol.* 5:17-17(2011).