10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

APIP Antibody
Rabbit Polyclonal Antibody
Catalog # ALS15705

Specification

APIP Antibody - Product Information

Application	**IHC, WB**
Primary Accession	Q96GX9
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
Human APIP

Reconstitution & Storage
Aliquot and store at -20°C. Minimize freezing and thawing.

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 µl

APIP Antibody - Protocols

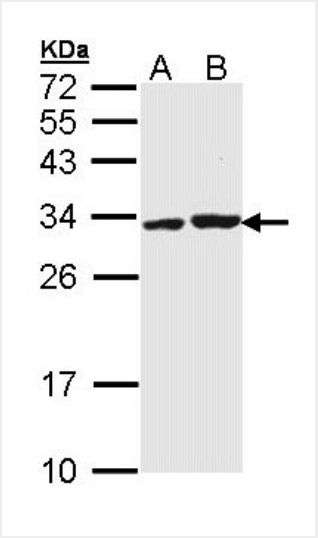
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

APIP Antibody - Images



Anti-APIP antibody IHC staining of human skeletal muscle.



Sample (30 ug of whole cell lysate).

APIP Antibody - Background

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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).