

ADI1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16495c

Specification

ADI1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O9BV57
Other Accession	NP_060739.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	21498
Antigen Region	88-116

ADI1 Antibody (Center) - Additional Information

Gene ID 55256

Other Names

2-dihydroxy-3-keto-5-methylthiopentene dioxygenase {ECO:0000255|HAMAP-Rule:MF_03154}, 1131154 {ECO:0000255|HAMAP-Rule:MF_03154}, Acireductone dioxygenase (Fe(2+)-requiring) {ECO:0000255|HAMAP-Rule:MF_03154}, ARD {ECO:0000255|HAMAP-Rule:MF_03154}, Fe-ARD {ECO:0000255|HAMAP-Rule:MF_03154}, Membrane-type 1 matrix metalloproteinase cytoplasmic tail-binding protein 1 {ECO:0000255|HAMAP-Rule:MF_03154}, MTCBP-1 {ECO:0000255|HAMAP-Rule:MF_03154}, Submergence-induced protein-like factor, Sip-L, ADI1 {ECO:0000255|HAMAP-Rule:MF_03154}

Target/Specificity

This ADI1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 88-116 amino acids from the Central region of human ADI1.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ADI1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ADI1 Antibody (Center) - Protein Information

Name ADI1 {ECO:0000255|HAMAP-Rule:MF_03154}

Function Catalyzes 2 different reactions between oxygen and the acireductone 1,2-dihydroxy-3-keto-5-methylthiopentene (DHK-MTPene) depending upon the metal bound in the active site (By similarity). Fe- containing acireductone dioxygenase (Fe-ARD) produces formate and 2- keto-4-methylthiobutyrate (KMTB), the alpha-ketoacid precursor of methionine in the methionine recycle pathway (PubMed:[15938715](#)). Ni- containing acireductone dioxygenase (Ni-ARD) produces methylthiopropionate, carbon monoxide and formate, and does not lie on the methionine recycle pathway (By similarity). Also down-regulates cell migration mediated by MMP14 (PubMed:[14718544](#)). Necessary for hepatitis C virus replication in an otherwise non-permissive cell line (PubMed:[11602742](#)).

Cellular Location

Cytoplasm. Nucleus. Cell membrane; Peripheral membrane protein; Cytoplasmic side.
Note=Localizes to the plasma membrane when complexed to MMP14.

Tissue Location

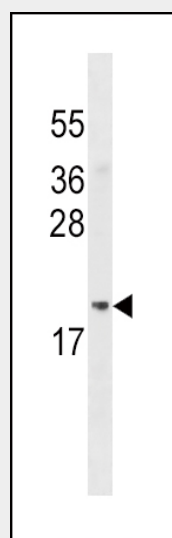
Detected in heart, colon, lung, stomach, brain, spleen, liver, skeletal muscle and kidney

ADI1 Antibody (Center) - 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](#)

ADI1 Antibody (Center) - Images



ADI1 Antibody (Center) (Cat. #AP16495c) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the ADI1 antibody detected the ADI1 protein (arrow).

ADI1 Antibody (Center) - Background

This gene encodes an enzyme that belongs to the aci-reductone dioxygenase family of metal-binding enzymes, which are involved in methionine salvage. This enzyme may regulate mRNA processing in the nucleus, and may carry out different functions depending on its localization. Related pseudogenes have been defined on chromosomes 8 and 20.

ADI1 Antibody (Center) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Cheng, J.C., et al. J. Med. Virol. 81(9):1560-1568(2009)
Oram, S.W., et al. Neoplasia 9(8):643-651(2007)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Gotoh, I., et al. Genes Cells 12(1):105-117(2007)