

ADI1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16495c**Specification**

ADI1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9BV57](#)**ADI1 Antibody (Center) Blocking Peptide - 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}

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ADI1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ADI1 Antibody (Center) Blocking Peptide - Images**ADI1 Antibody (Center) Blocking Peptide - Background**

This gene encodes an enzyme that belongs to the acyl-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) Blocking Peptide - 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)