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ADI1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP16495c

Specification

ADI1 Antibody (Center) Blocking Peptide - Product Information

Primary 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 theaci-reductone dioxygenase family of metal-binding enzymes, whichare involved in methionine salvage. This enzyme may regulate mRNAprocessing in the nucleus, and may carry out different functionsdepending on its localization. Related pseudogenes have beendefined 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)