

ADI1 Antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI15325

Product Information

Application	WB
Primary Accession	Q9BV57
Other Accession	NM_018269 , NP_060739
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21498

Additional Information

Gene ID	55256
Alias Symbol Other Names	APL1, ARD, FLJ10913, HMFT1638, MTCBP-1, MTCBP1, SIP-L, SIPL 1, 2-dihydroxy-3-keto-5-methylthiopentene dioxygenase {ECO:0000255 HAMAP-Rule:MF_03154}, 1.13.11.54 {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	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-ADI1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	ADI1 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

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

References

Uekita T.,et al.J. Biol. Chem. 279:12734-12743(2004).
 Fan Y.X.,et al.Submitted (JUL-2003) to the EMBL/GenBank/DDBJ databases.
 Yamada S.,et al.Oncogene 23:5901-5911(2004).
 Ota T.,et al.Nat. Genet. 36:40-45(2004).
 Suzuki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.

Images



WB Suggested Anti-ADI1 Antibody Titration: 1.0 µg/ml
 Positive Control: Jurkat Whole Cell

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.