

ADI1 Antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI15325**Specification****ADI1 Antibody - N-terminal region - Product Information**

Application	WB
Primary Accession	O9BV57
Other Accession	NM_018269 , NP_060739
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21kDa KDa

ADI1 Antibody - N-terminal region - Additional Information**Gene ID** 55256**Alias Symbol** **APL1, ARD, FLJ10913, HMFT1638, MTCBP-1, MTCBP1, SIP-L, SIPL****Other Names**

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.

ADI1 Antibody - N-terminal region - 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

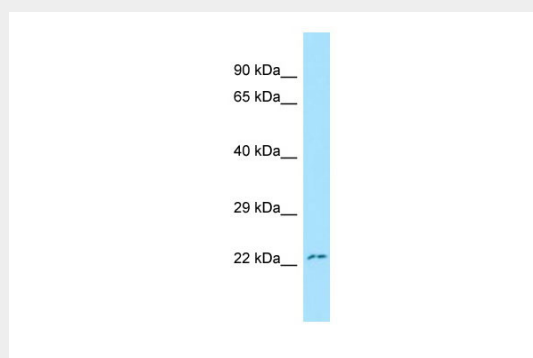
Detected in heart, colon, lung, stomach, brain, spleen, liver, skeletal muscle and kidney

ADI1 Antibody - N-terminal region - 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 - N-terminal region - Images



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

ADI1 Antibody - N-terminal region - 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.