

Mouse anti-Human DECR1 Monoclonal Antibody | anti-DECR1 antibody

DECR1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48249	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

DECR1; Monoclonal Antibody; DECR1 antibody; 24-dienoyl-CoA reductase mitochondrial; 2; 4-dienoyl-CoA reductase; mitochondrial; DECR; NADPH; SDR18C1; anti-DECR1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	AT3B2
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	335
Applicable Applications for anti-DECR1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human DECR1 (35-335aa) purified from E. coli
Clone Note	Anti-human DECR1 mAb, clone AT3B2, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human DECR1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of DECR1 in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human DECR1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human DECR1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: PC3 cell lysate Lane 2.: HepG2 cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-DECR1 antibody	DECR1 is a mitochondrial protein that exists as a homotetramer and belongs to the family of short-chain dehydrogenases/reductases. It functions as an auxiliary enzyme of beta-oxidation andt participates in the metabolism of unsaturated fatty enoyl-CoA esters. Specifically, DECR1 uses NADP+ to catalyze the reduction of 2,4-dienoyl-CoA to yield trans-3-enoyl-CoA, which can then be used as an intermediate in the Krebs cycle. Additionally, DECR1 is thought to function as a tumor suppressor, possibly downregulating the expression of Neu and slowing the rate of tumorigenesis.
Product Categories/Family for anti-DECR1 antibody	Signal Transduction; Metabolism
References	Koivuranta KT., et al. (1994) Biochem J. 304 (3): 787-92.; Roe CR., et al. (1990) J Clin Invest. 85 (5): 1703-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503301
NCBI GeneID	1666
NCBI Accession #	NP_001350
NCBI GenBank Nucleotide #	NM_001359.1
UniProt Accession #	Q16698; Q2M304; Q93085; B7Z6B8
Molecular Weight	34,994 Da
NCBI Official Full Name	2,4-dienoyl-CoA reductase, mitochondrial isoform 1
NCBI Official Synonym Full Names	2,4-dienoyl-CoA reductase 1
NCBI Official Symbol	DECR1
NCBI Official Synonym Symbols	DECR; NADPH; SDR18C1
NCBI Protein Information	2,4-dienoyl-CoA reductase, mitochondrial
UniProt Protein Name	2,4-dienoyl-CoA reductase, mitochondrial
UniProt Gene Name	DECR1
UniProt Synonym Gene Names	DECR; SDR18C1; 4-enoyl-CoA reductase [NADPH]

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.