

Anti-DECR1 antibody [8B1AD10] ab110287

4 Images

Overview

Product name	Anti-DECR1 antibody [8B1AD10]
Description	Mouse monoclonal [8B1AD10] to DECR1
Host species	Mouse
Tested applications	Suitable for: IP, ICC/IF, IHC-P, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Tissue, cells or virus. This information is considered to be commercially sensitive.
Positive control	MRC5 fibroblasts; Human cerebellum tissue; Human liver mitochondria; HeLa cells.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p> <p>Product was previously marketed under the MitoSciences sub-brand.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	<p>pH: 7.5</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: HEPES buffered saline</p>
Purity	Ammonium Sulphate Precipitation
Purification notes	Purity near homogeneity as judge by SDS-PAGE. The antibody was produced in-vitro using hybridomas grown in serum-free medium and then purified by biochemical fractionation.
Clonality	Monoclonal

Clone number	8B1AD10
Isotype	IgG1
Light chain type	kappa

Applications

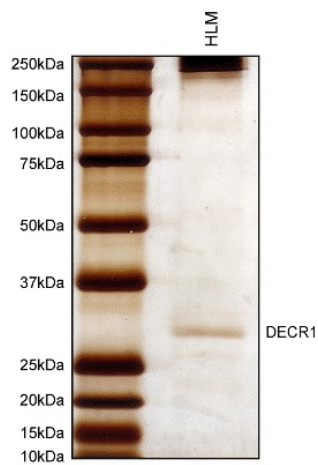
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab110287 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration. This antibody will only immunoprecipitate DECR1 from isolated mitochondria.
ICC/IF		Use a concentration of 1 µg/ml.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval - 1 min pressure cook in 1mmol EDTA pH8.
Flow Cyt		Use a concentration of 1 µg/ml. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

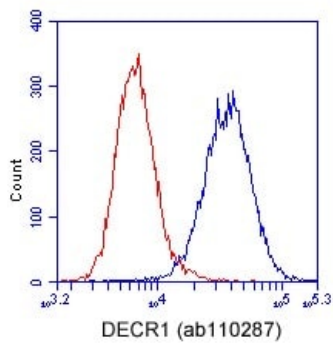
Function	Auxiliary enzyme of beta-oxidation. It participates in the metabolism of unsaturated fatty enoyl-CoA esters having double bonds in both even- and odd-numbered positions. Catalyzes the NADP-dependent reduction of 2,4-dienoyl-CoA to yield trans-3-enoyl-CoA.
Tissue specificity	Heart = liver = pancreas > kidney >> skeletal muscle = lung.
Sequence similarities	Belongs to the short-chain dehydrogenases/reductases (SDR) family. 2,4-dienoyl-CoA reductase subfamily.
Cellular localization	Mitochondrion.

Images



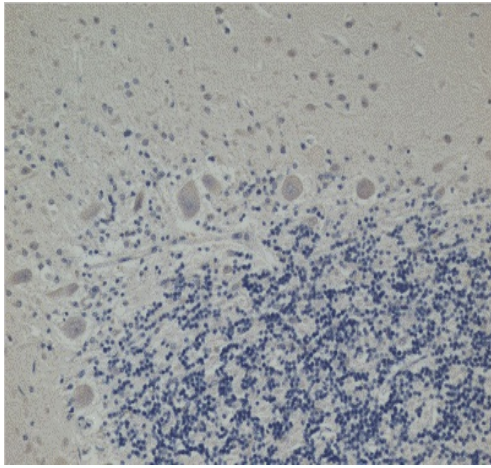
Immunoprecipitation - Anti-DEC1 antibody
[8B1AD10] (ab110287)

DEC1 immunocaptured from human liver mitochondria using ab110287.



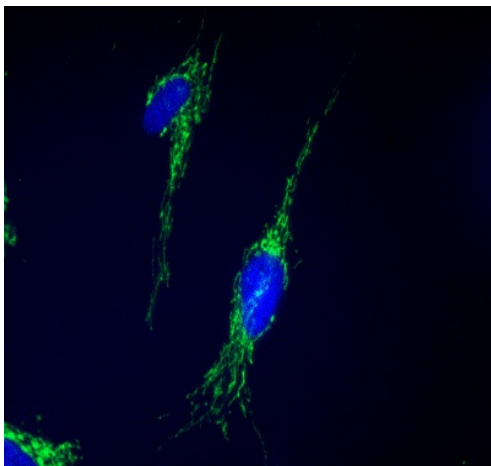
Flow Cytometry - Anti-DEC1 antibody [8B1AD10]
(ab110287)

HeLa cells were stained with 1 $\mu\text{g/mL}$ ab110287 (blue) or an equal amount of an isotype control antibody (red) and analyzed by flow cytometry.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DEC1 antibody [8B1AD10] (ab110287)

ab110287 staining DEC1 in formalin-fixed, paraffin-embedded Human cerebellum tissue by Immunohistochemistry. DEC1 immunoactivity is most intense in neuronal cell bodies, most notably in the large Purkinje cells.



Immunocytochemistry/ Immunofluorescence - Anti-DEC1 antibody [8B1AD10] (ab110287)

MRC5 fibroblasts labeled with 1 µg/ml ab110287 and detected with goat anti-mouse secondary conjugated to FITC.

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