

2,4-dienoyl-CoA reductase (DECR1) monoclonal antibody

Cat. no. A21982

Components:	100 µg monoclonal antibody
Lot no.:	See product label
Clone/PAD:	8B1AD10
Isotype:	Mouse IgG1, Kappa
Gene ID:	1666
Gene Symbol:	DECR1
Alternative Names:	2,4-dienoyl-CoA reductase, mitochondrial; 2,4-dienoyl-CoA reductase [NADPH]; 4-enoyl-CoA reductase [NADPH]; DECR; NADPH; SDR18C1
Concentration:	1 mg/mL in HEPES-Buffered Saline (HBS) with 0.02% sodium azide as a preservative
mAb PURITY:	Near homogeneity as judged by SDS-PAGE. The antibody was produced <i>in vitro</i> using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.
Reactivity:	Human
Immunogen:	Human liver mitochondria
Validated Applications:	Immunoprecipitation (only from isolated mitochondria), Immunocytochemistry, Immunohistochemistry, In-Cell ELISA
Suggested Working Concentration:	1 µg/mL for Immunocytochemistry (This is a starting working concentration. The optimal antibody concentration should be determined empirically for each specific application.)
Storage:	Store at 2–8°C. Do not freeze.
Expiration Date:	See product label.

Target Background:

DECR1 encodes an accessory enzyme which participates in the beta-oxidation and metabolism of unsaturated fatty enoyl-CoA esters.



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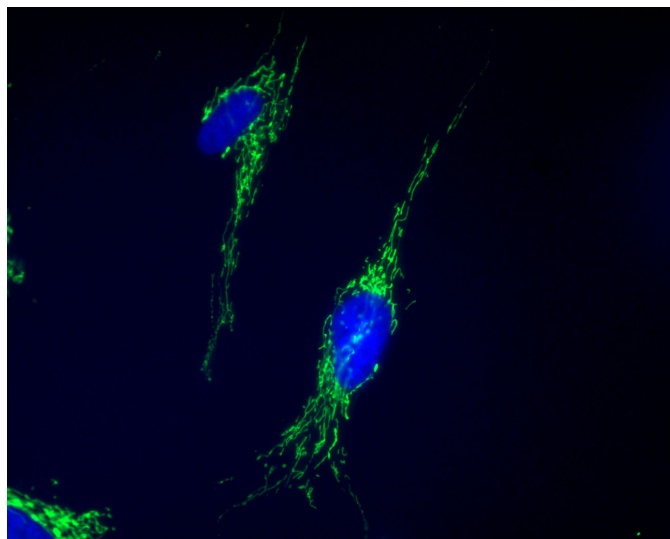
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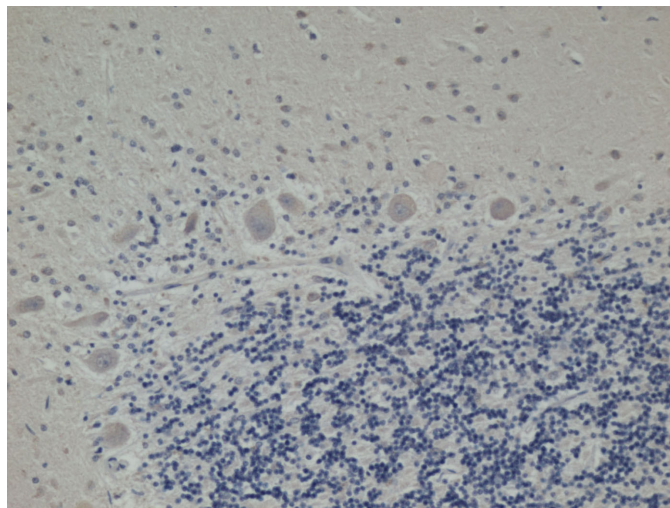
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Immunocytochemistry image of 2,4-dienoyl-CoA reductase (DECR1) monoclonal antibody. Human HDFn cells were fixed in 4% paraformaldehyde for 20 minutes and then permeabilized with 0.1% Triton® X-100 for 15 minutes. The cells were incubated with 5 µg/mL of the antibody overnight at 4°C. GAM-FITC was used as a secondary antibody at a 1/1,000 dilution for 1 hour (green). 10% Goat serum was used as the blocking agent for all blocking steps. The cell nuclei were counterstained with DAPI (blue).



Immunohistochemistry image of 2,4-dienoyl-CoA reductase (DECR1) monoclonal antibody. Immunohistochemical localization of mitochondrial and metabolic enzymes in sections of normal, aged human cerebellar tissue that was formalin-fixed and paraffin-embedded. Immunolabeling was carried out with primary antibodies diluted in TBST/4% BSA at room temperature for one hour. Immunodetection was carried out using a commercial HRP Detection Kit according to the manufacturer's instructions.

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