

**DEC1 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5307**

**Specification**

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**DEC1 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q16698</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=36;M=36;Rat=36 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**DEC1 Antibody (Center) - Additional Information**

**Gene ID** 1666

**Antigen Region**  
241-274

**Other Names**  
4-dienoyl-CoA reductase, mitochondrial, 4-dienoyl-CoA reductase [NADPH], 4-enoyl-CoA reductase [NADPH], DEC1, DECR

**Dilution**  
WB~~1:1000

**Target/Specificity**  
This DEC1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 241-274 amino acids from the Central region of human DEC1.

**Format**  
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**  
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**  
DEC1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**DEC1 Antibody (Center) - Protein Information**

**Name** DEC1

**Synonyms** DECR, SDR18C1

### 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 in mitochondria. Catalyzes the NADP-dependent reduction of 2,4-dienoyl-CoA to yield trans-3-enoyl-CoA.

### Cellular Location

Mitochondrion.

### Tissue Location

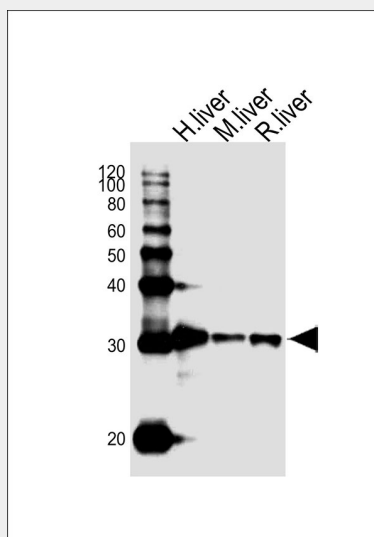
Heart = liver = pancreas > kidney >> skeletal muscle = lung.

## DECR1 Antibody (Center) - 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](#)

## DECR1 Antibody (Center) - Images



Western blot analysis of lysates from human liver, mouse liver and rat liver tissue lysate (from left to right), using DECR1 Antibody (Center)(Cat. #AW5307). AW5307 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.

## DECR1 Antibody (Center) - Background

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.

**DECRI Antibody (Center) - References**

- Koivuranta K.T., et al. *Biochem. J.* 304:787-792(1994).  
Ding J.H., et al. Submitted (OCT-1996) to the EMBL/GenBank/DDBJ databases.  
Helander H.M., et al. *Genomics* 46:112-119(1997).  
Nusbaum C., et al. *Nature* 439:331-335(2006).  
Choudhary C., et al. *Science* 325:834-840(2009).