

SCD Blocking Peptide
Catalog # PBV10404b**Specification**

SCD Blocking Peptide - Product Information

Primary Accession	Q6P7B9
Other Accession	NP_114029
Gene ID	83792
Calculated MW	41013

SCD Blocking Peptide - Additional Information**Gene ID** 83792**Application & Usage**

The peptide is used for blocking the antibody activity of SCD. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

Other Names

Acyl-CoA desaturase 2, 1.14.19.1, Delta(9)-desaturase 2, Delta-9 desaturase 2, Fatty acid desaturase 2, Stearoyl-CoA desaturase 2, Scd2

Target/Specificity

SCD

Formulation

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

SCD Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

SCD Blocking Peptide - Protein Information**Name** Scd2**Function**

Stearoyl-CoA desaturase that utilizes O(2) and electrons from reduced cytochrome b5 to introduce the first double bond into saturated fatty acyl-CoA substrates. Catalyzes the insertion of a cis

double bond at the delta-9 position into fatty acyl-CoA substrates including palmitoyl-CoA and stearoyl-CoA (PubMed:20228221). Gives rise to a mixture of 16:1 and 18:1 unsaturated fatty acids (PubMed:20228221). Contributes to the biosynthesis of membrane phospholipids, cholesterol esters and triglycerides, especially during embryonic development and in neonates. Important for normal permeability barrier function of the skin in neonates.

Cellular Location

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P13011}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P13011}. Microsome membrane {ECO:0000250|UniProtKB:P13011}

Tissue Location

Detected in brain and adipose tissue, and at much lower levels in testis. Detected in liver when rats are kept on a fat- free diet, but not when their food contains unsaturated fatty acids

SCD Blocking Peptide - 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](#)

SCD Blocking Peptide - Images