

## Product datasheet for **AP53809PU-N**

### SCD5 (Center) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	<b>Western blotting:</b> 1/1000.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 147-175 amino acids from the Central region of Human SCD5
Specificity:	Recognizes SCD5 (Center).
Formulation:	PBS with 0.09% (W/V) Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A column followed by peptide Affinity purification
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	stearoyl-CoA desaturase 5
Database Link:	<a href="#">Entrez Gene 79966 Human Q86SK9</a>



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**Background:**

Stearoyl-CoA desaturase (SCD; EC 1.14.99.5) is an integral membrane protein of the endoplasmic reticulum that catalyzes the formation of monounsaturated fatty acids from saturated fatty acids. SCD may be a key regulator of energy metabolism with a role in obesity and dislipidemia. Four SCD isoforms, Scd1 through Scd4, have been identified in mouse. In contrast, only 2 SCD isoforms, SCD1 (MIM 604031) and SCD5, have been identified in human. SCD1 shares about 85% amino acid identity with all 4 mouse SCD isoforms, as well as with rat Scd1 and Scd2. In contrast, SCD5 shares limited homology with the rodent SCDs and appears to be unique to primates (Wang et al., 2005 [PubMed 15907797]).

**Synonyms:**

Stearoyl-CoA desaturase 5, HSCD5, Acyl-CoA-desaturase 4, ACOD4, SCD4, Stearoyl-CoA 9-desaturase

**Note:**

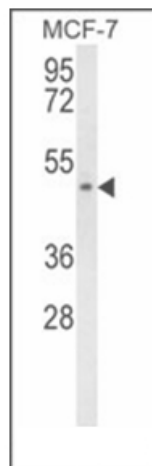
**Molecular Weight:** 37610 Da

**Protein Families:**

Transmembrane

**Protein Pathways:**

Biosynthesis of unsaturated fatty acids, PPAR signaling pathway

**Product images:**

Western blot analysis of SCD5 Antibody (Center) in MCF-7 cell line lysates (35 ug/lane). This demonstrates the SCD5 antibody detected the SCD5 protein (arrow).