



# Anti-FADS2 monoclonal antibody (DCABH-11485)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	The protein encoded by this gene is a member of the fatty acid desaturase (FADS) gene family. Desaturase enzymes regulate unsaturation of fatty acids through the introduction of double bonds between defined carbons of the fatty acyl chain. FADS family members are considered fusion products composed of an N-terminal cytochrome b5-like domain and a C-terminal multiple membrane-spanning desaturase portion, both of which are characterized by conserved histidine motifs. This gene is clustered with family members FADS1 and FADS2 at 11q12-q13.1; this cluster is thought to have arisen evolutionarily from gene duplication based on its similar exon/intron organization.
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<b>Immunogen</b>	A synthetic peptide of human FADS2 is used for rabbit immunization.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Purification</b>	Protein A
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Western Blot (Transfected lysate); ELISA
<b>Buffer</b>	In 1x PBS, pH 7.4
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">FADS2 fatty acid desaturase 2 [ Homo sapiens ]</a>
<b>Official Symbol</b>	FADS2
<b>Synonyms</b>	FADS2; fatty acid desaturase 2; LLCDL2; D6D; delta 6 desaturase; DES6; FADSD6; SLL0262; TU13; delta-6 desaturase; delta-6-desaturase; delta(6) desaturase; delta-6 fatty acid desaturase; delta(6) fatty acid desaturase; linoleoyl-CoA desaturase (delta-6-desaturase)-like 2;
<b>Entrez Gene ID</b>	<a href="#">9415</a>
<b>Protein Refseq</b>	<a href="#">NP_004256</a>
<b>UniProt ID</b>	<a href="#">O95864</a>
<b>Chromosome Location</b>	11q12.2
<b>Pathway</b>	Biosynthesis of unsaturated fatty acids, organism-specific biosystem; Biosynthesis of unsaturated fatty acids, conserved biosystem; PPAR signaling pathway, organism-specific biosystem; PPAR signaling pathway, conserved biosystem; alpha-Linolenic acid metabolism, organism-specific biosystem; alpha-Linolenic acid metabolism, conserved biosystem; gamma-linolenate biosynthesis II (animals), organism-specific biosystem.
<b>Function</b>	heme binding; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with oxidation of a pair of donors resulting in the reduction of molecular oxygen to two molecules of water; stearoyl-CoA 9-desaturase activity;