

Product datasheet for **AM31762PU-N**

FADS1 Mouse Monoclonal Antibody [Clone ID: 2D9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2D9
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Immunohistochemistry on Paraffin Sections: 5 µg/ml. Western Blot: 1/500 - 1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	FADS1 antibody was raised against (NP_037534, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Specificity:	This antibody reacts to FADS1.
Formulation:	PBS, pH 7.2 State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
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:	fatty acid desaturase 1
Database Link:	Entrez Gene 3992 Human O60427



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Background:

FADS1 is a component of a lipid metabolic pathway that catalyzes biosynthesis of highly unsaturated fatty acids (HUFA) from precursor essential polyunsaturated fatty acids (PUFA) linoleic acid (LA) (18:2n-6) and alpha-linolenic acid (ALA) (18:3n-3). Catalyzes the desaturation of dihomo-gamma-linoleic acid (DHGLA) (20:3n-6) and eicosatetraenoic acid (20:4n-3) to generate arachidonic acid (AA) (20:4n-6) and eicosapentaenoic acid (EPA)(20:5n-3) respectively.

Synonyms:

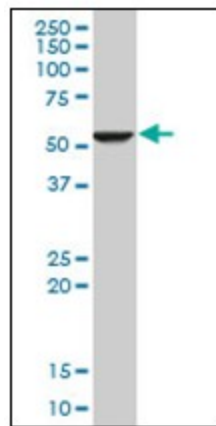
FADS-1, FADSD5, Fatty acid desaturase 1, Delta(5) fatty acid desaturase, Delta(5) desaturase, D5D

Protein Families:

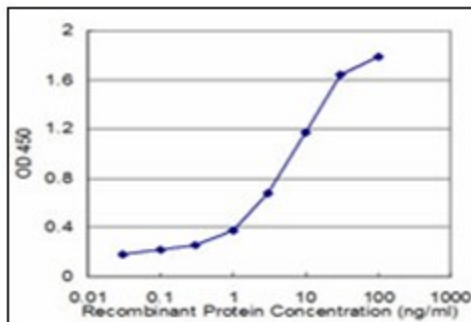
Transcription Factors, Transmembrane

Protein Pathways:

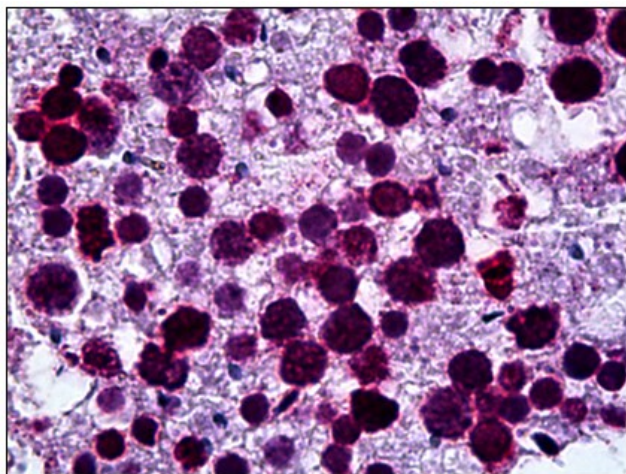
Biosynthesis of unsaturated fatty acids

Product images:

Monoclonal antibody, clone 2D9. Western Blot analysis of expression in HeLa NE.



Detection limit for recombinant GST tagged FADS1 is approximately 0.03ng/ml as a capture antibody.



Human Testis: Formalin-Fixed, Paraffin-Embedded (FFPE)