SMO Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SMO, Polyclonal Antibody
Full Product Name	SMO Antibody, FITC conjugated
Product Gene Name	anti-SMO antibody
Product Synonym Names	Smoothened homologSMO; Protein Gx; SMO; SMOH
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: SMO (MBS7051048) FITC Conjugated Antibody: SMO (MBS7051050)
Molecular Weight	86,397 Da
OMIM	U84401 mRNA
3D Structure	ModBase 3D Structure for Q99835
Immunogen	Recombinant human Smoothened homolog protein (28-233AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	FITC
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-6366 / sc-13943
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SMO antibody	ELISA (EIA)
Related Product Information for anti-SMO antibody	G protein-coupled receptor that probably associates with the patched protein (PTCH) to transduce the hedgehog's proteins signal. Binding of sonic hedgehog (SHH) to its receptor patched is thought to prevent normal inhibition by patched of smoothened (SMO). Required for the accumulation of KIF7 and GLI3 in the cilia.
Other Notes	Small volumes of anti-SMO antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SMO purchase	MBS7051050 is an antibody targeting SMO. Also known as SMO Antibody, FITC conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SMO. It may not necessarily be applicable to this product.

NCBI GI #	5032099
NCBI GeneID	6608
NCBI Accession #	NP_005622.1
UniProt Primary Accession #	Q99835
UniProt Secondary Accession #	A4D1K5
UniProt Related Accession #	Q99835
GenBank Nucleotide #	NM_005631.4
NCBI Official Full Name	smoothened homolog
NCBI Official Synonym Full Names	smoothened, frizzled class receptor
NCBI Official Symbol	SMO
NCBI Official Synonym Symbols	Gx; CRJS; SMOH; FZD11
UniProt Protein Name	Smoothened homolog
UniProt Synonym Protein Names	Protein Gx
Protein Family	Protein smoothened
UniProt Gene Name	SMO
UniProt Synonym Gene Names	SMOH; SMO
UniProt Entry Name	SMO_HUMAN
NCBI Protein Information	smoothened homolog
NCBI Summary for SMO	The protein encoded by this gene is a G protein-coupled receptor that interacts with the patched protein, a receptor for hedgehog proteins. The encoded protein tranduces signals to other proteins after activation by a hedgehog protein/patched protein complex. [provided by RefSeq, Jul 2010]
UniProt Comments for SMO	SMO: G protein-coupled receptor that probably associates with the patched protein (PTCH) to transduce the hedgehog's proteins signal. Binding of sonic hedgehog (SHH) to its receptor patched is thought to prevent normal inhibition by patched of smoothened (SMO). Required for the accumulation of KIF7 and GLI3 in the cilia. Belongs to the G-protein coupled receptor Fz/Smo family. Protein type: Cell development/differentiation; GPCR, Fz/Smo family; Membrane protein, integral; Membrane protein, multi-pass; Oncoprotein; Receptor, GPCR Chromosomal Location of Human Ortholog: 7q32.3 Cellular Component: caveola; cilium; Golgi apparatus; integral to membrane; intracellular membrane-bound organelle; plasma membrane Molecular Function: drug binding; G-protein coupled receptor activity; patched binding; protein binding; Wnt receptor activity; Wnt-protein binding Biological Process: activation of hh target transcription factor; forebrain morphogenesis; heart looping; midgut development; negative regulation of DNA binding; smoothened signaling pathway; ventral midline determination; Wnt receptor signaling pathway through beta-catenin Disease: Basal Cell Carcinoma, Susceptibility To, 1; Curry-jones Syndrome
Research Articles on SMO	**1.** exogenous addition of 3beta,5alpha-dihydroxycholest-7-en-6-one, a naturally occurring B-ring oxysterol derived from 7-DHC that also accumulates in Smith-Lemli-Opitz syndrome, blocked Hedgehog signaling by inhibiting activation of the essential transduction component Smoothened, through a mechanism distinct from Smoothened modulation by other lipids.

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