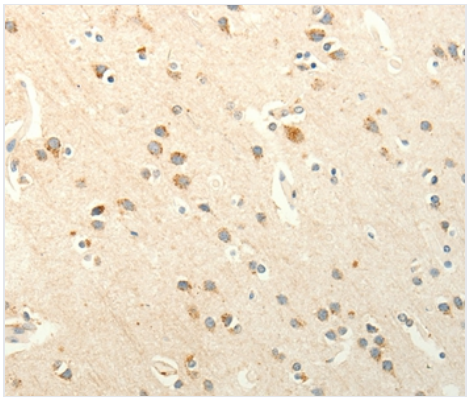
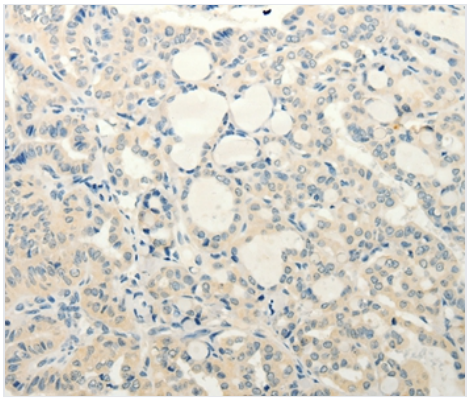
SMO Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SMO, Polyclonal Antibody
Full Product Name	SMO Antibody
Product Gene Name	anti-SMO antibody
Product Synonym Names	Gx; SMOH; FZD11
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.3 PBS, 0.05% NaN3, 50% Glycerol.
Purity/Purification	Antigen affinity purification.
Concentration	0.7 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total SMO protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	86,397 Da
OMIM	601500
3D Structure	ModBase 3D Structure for Q99835
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide corresponding to residues near the C terminal of human smoothened, frizzled family receptor
Target Name	SMO
Product Categories/Family for anti-SMO antibody	Total protein Ab
Applications Tested/Suitable for anti-SMO antibody	Immunohistochemistry (IHC)
Application Notes for anti-SMO antibody	Immunohistochemistry: 1:25-1:100
Related Product Information for anti-SMO antibody	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.
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	MBS9409081 is an antibody targeting SMO. Also known as SMO Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-SMO antibody
Immunohistochemical analysis of paraffin-embedded Human brain tissue using at dilution 1/20.



Immunohistochemistry (IHC) of anti-SMO antibody
Immunohistochemical analysis of paraffin-embedded Human thyroid cancer tissue using at dilution 1/20.

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; 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

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: Membrane protein, integral; Receptor, GPCR; Oncoprotein; Membrane protein, multi-pass; GPCR, Fz/Smo family; Cell development/differentiation Chromosomal Location of Human Ortholog: 7q32.3 Cellular Component: Golgi apparatus; intracellular membrane-bound organelle; integral to membrane; plasma membrane; caveola Molecular Function: G-protein coupled receptor activity; Wnt-protein binding; Wnt receptor activity; protein binding; patched binding; drug binding Biological Process: developmental growth; central nervous system neuron differentiation; ventral midline determination; negative regulation of epithelial cell differentiation; skeletal muscle fiber development; cell fate specification; Wnt receptor signaling pathway through beta-catenin; thalamus development; negative regulation of transcription from RNA polymerase II promoter; anterior/posterior pattern formation; positive regulation of mesenchymal cell proliferation; positive regulation of smoothened signaling pathway; heart looping; vasculogenesis; neural crest cell migration; activation of hh target transcription factor; dorsoventral neural tube patterning; positive regulation of neuroblast proliferation; smoothened signaling pathway; hair follicle morphogenesis; protein stabilization; in utero embryonic development; smoothened signaling pathway in regulation of granule cell precursor cell proliferation; multicellular organism growth; smoothened signaling pathway in ventral spinal cord patterning; forebrain morphogenesis; negative regulation of hair follicle development; negative regulation of DNA binding; odontogenesis of dentine-containing teeth; osteoblast differentiation; G-protein coupled receptor protein signaling pathway; positive regulation of protein import into nucleus; cerebellar cortex morphogenesis; myoblast migration; midgut development; positive regulation of transcription from RNA polymerase II promoter; positive regulation of epithelial cell proliferation; negative regulation of apoptosis
Research Articles on SMO	**1.** SMO was upregulated in gliomas and was associated with tumor grade and survival period. SMO inhibition suppressed the biological behaviors of glioma cells. SMO expression was inversely correlated with miR-326 and is a novel direct target of miR-326.
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