

Rabbit SMO / Smoothened Polyclonal Antibody | anti-SMO antibody

Rabbit Polyclonal to Human SMO / Smoothened

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA52474	Rabbit	Gibbon, Human Predicted Reactivity: Monkey, Mouse, Rat, Bat, Bovine, Dog, Hamster, Horse, Pig, Rabbit, Chicken, Xenopus (at least 90% immunogen sequence identity)	Immunohistochemistry

PRODUCT SYNONYMS

SMO / Smoothened; Polyclonal Antibody; Rabbit Polyclonal to Human SMO / Smoothened; Anti-SMO / Smoothened Antibody (1st Extracellular Domain) IHC-plus; SMO; Frizzled family member 11; FZD11; Gx; Protein Gx; SMOH; Smoothened; Smoothened homolog; Human SMO; anti-SMO antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Gibbon, Human Predicted Reactivity: Monkey, Mouse, Rat, Bat, Bovine, Dog, Hamster, Horse, Pig, Rabbit, Chicken, Xenopus (at least 90% immunogen sequence identity)
Clonality	Polyclonal
Specificity	Human SMO. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Purity/Purification	Immunoaffinity Purified
Form/Format	PBS, 0.1% sodium azide.
Concentration	1 mg/ml (varies by lot)
Sequence Length	787
Applicable Applications for anti-SMO antibody	IHC (Immunohistochemistry)
Target Species	Human
Immunogen Description	Synthetic 16 amino acid peptide from 1st extracellular domain of human SMO. Percent identity with other species by BLAST analysis: Human, Gibbon, Monkey (100%); Marmoset, Mouse, Rat, Bovine, Dog, Bat, Hamster, Elephant, Panda, Horse, Rabbit, Pig.
Immunogen Type	Synthetic peptide
Immunogen	SMO / Smoothened antibody was raised against synthetic 16 amino acid peptide from 1st extracellular domain of human SMO. Percent identity with other species by BLAST analysis: Human, Gibbon, Monkey (100%); Marmoset, Mouse, Rat, Bovine, Dog, Bat, Hamster, Elephant, Panda, Horse, Rabbit, Pig, Turkey, Chicken, Platypus, Xenopus (94%); Opossum (88%).
Antigen Modification	1st Extracellular Domain
Preparation and Storage	Long term: -70 degree C; Short term: +4 degree C

IMAGES



IHC (Immunohistochemistry)
Anti-SMO / Smoothened antibody IHC of human Ovary, Carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



IHC (Immunohistochemistry)
Anti-SMO / Smoothened antibody IHC of human Skin, Basal Cell Carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



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



IHC (Immunohistochemistry)
Anti-SMO / Smoothened antibody IHC of human brain, cortex. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

ADDITIONAL INFORMATION

Related Product Information for anti-SMO antibody	Smoothened, a Frizzled Receptor, is homologous to the Drosophila segment polarity Smo gene. It associates with the Patched protein to mediate the cellular response to the Hedgehog secreted protein signal, which controls patterning and growth during vertebrate development. Smoothened is activated in a number of human tumors and can function as an oncogene in basal-cell carcinomas.
Product Categories/Family for anti-SMO antibody	Family: GPCR ; Subfamily: Frizzled

NCBI AND UNIPROT INFORMATION

NCBI GI #	5032099
NCBI GeneID	6608
NCBI Accession #	NP_005622.1
NCBI GenBank Nucleotide #	NM_005631.4
UniProt Accession #	Q99835 ; A4D1K5
Molecular Weight	86,397 Da
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
NCBI Protein Information	smoothened homolog; protein Gx; frizzled family member 11; seven transmembrane helix receptor; smoothened, frizzled family receptor; smoothened, seven transmembrane spanning receptor
UniProt Protein Name	Smoothened homolog
UniProt Gene Name	SMO
UniProt Synonym Gene Names	SMOH; SMO
UniProt Entry Name	SMO_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

