10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SMO Antibody (monoclonal) (M06)

Mouse monoclonal antibody raised against a partial recombinant SMO.
Catalog # AT3959a

Product Information

Application	E
Primary Accession	Q99835
Other Accession	NM_005631
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3G8
Calculated MW	86397

Additional Information

Gene ID	6608
Other Names	Smoothened homolog, SMO, Protein Gx, SMO, SMOH
Target/Specificity	SMO (NP_005622, 56 a.a. ~ 155 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	SMO Antibody (monoclonal) (M06) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

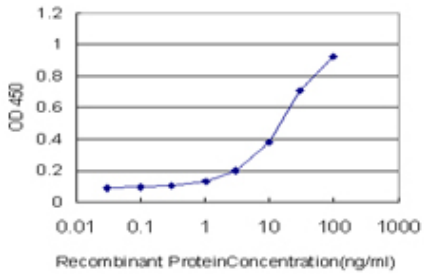
The protein encoded by this gene is a G protein-coupled receptor that interacts with the patched protein, a receptor for hedgehog proteins. The encoded protein tranduces signals to other proteins after activation by a hedgehog protein/patched protein complex.

References

Immunohistochemical expression of SHH, PTC, SMO and GLI1 in glandular odontogenic cysts and dentigerous cysts. Zhang L, et al. Oral Dis, 2010 Jun 18. PMID 20561215.Overexpression of smoothened activates the sonic hedgehog signaling pathway in pancreatic cancer-associated fibroblasts. Walter K, et al. Clin Cancer Res, 2010 Mar 15. PMID 20215540.Smoothened as a new therapeutic target for human

osteosarcoma. Hirotsu M, et al. Mol Cancer, 2010 Jan 12. PMID 20067614.Hedgehog signaling maintains hair follicle stem cell phenotype in young and aged human skin. Ritti? L, et al. Aging Cell, 2009 Dec. PMID 20050020.The variant rs1867277 in FOXE1 gene confers thyroid cancer susceptibility through the recruitment of USF1/USF2 transcription factors. Landa I, et al. PLoS Genet, 2009 Sep. PMID 19730683.

Images



Detection limit for recombinant GST tagged SMO is approximately 0.3ng/ml as a capture antibody.