Best Tools for immunology Research

Smo Polyclonal Antibody

Catalog No :	YT4345
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	Smo
Fields :	>>Hedgehog signaling pathway;>>Axon guidance;>>Pathways in cancer;>>Proteoglycans in cancer;>>Basal cell carcinoma
Gene Name :	SMO
Protein Name :	Smoothened homolog
Human Gene Id :	6608
Human Swiss Prot No :	Q99835
Mouse Gene Id :	319757
Mouse Swiss Prot No :	P56726
Rat Gene Id :	25273
Rat Swiss Prot No :	P97698
Immunogen :	The antiserum was produced against synthesized peptide derived from human SMO. AA range:68-117
Specificity :	Smo Polyclonal Antibody detects endogenous levels of Smo protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 86kD

Cell Pathway : Hedgehog;Pathways in cancer;Basal cell carcinoma;

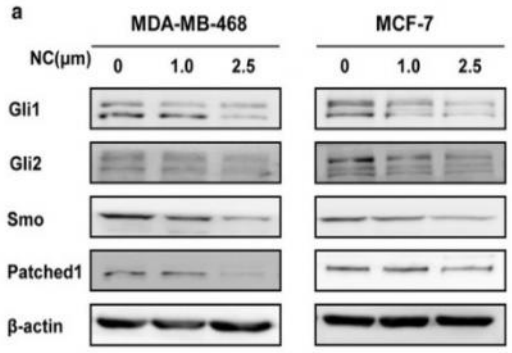
Background : The protein encoded by this gene is a G protein-coupled receptor that interacts with the patched protein, a receptor for hedgehog proteins. The encoded protein tranduces signals to other proteins after activation by a hedgehog protein/patched protein complex. [provided by RefSeq, Jul 2010],

Function : disease:Defects in SMO are involved in basal cell carcinoma (BCC).,function: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).,similarity:Belongs to the G-protein coupled receptor Fz/Smo family.,similarity:Contains 1 FZ (frizzled) domain.,

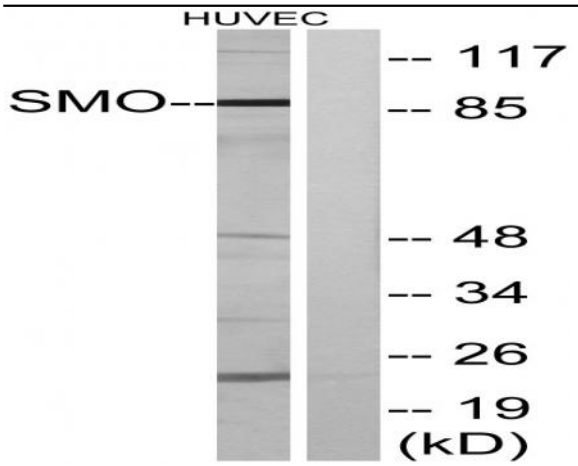
Subcellular Location : Membrane ; Multi-pass membrane protein . Cell projection, cilium .

Expression : Brain,Embryonic lung,Synovial membrane,

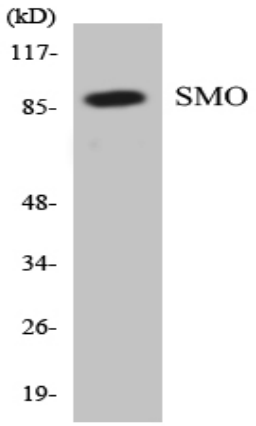
Products Images



Sun, Mingjuan, et al. "Hedgehog pathway is involved in nitidine chloride induced inhibition of epithelial-mesenchymal transition and cancer stem cells-like properties in breast cancer cells." Cell & bioscience 6.1 (2016): 44.



Western blot analysis of lysates from HUVEC cells, using SMO Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HepG2 cells using SMO antibody.