

Rabbit Smoothened/SMO Polyclonal Antibody | anti-SMO antibody

Anti-Smoothened/SMO Antibody Picoband

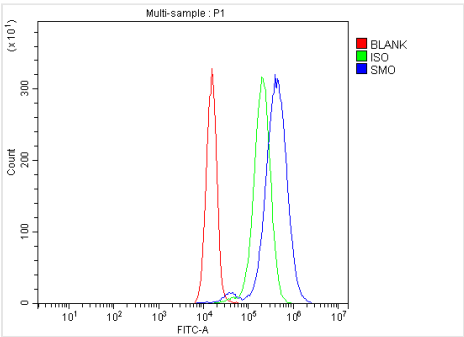
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126028	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

Smoothened/SMO; Polyclonal Antibody; Anti-Smoothened/SMO Antibody Picoband; anti-SMO antibody

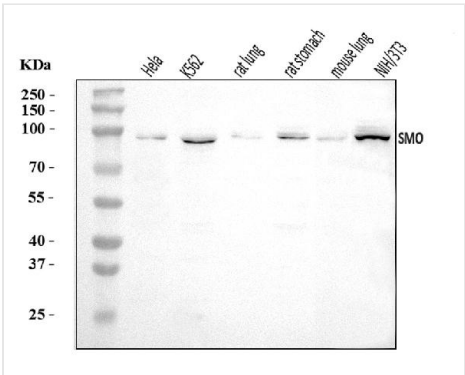
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-SMO antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Smoothened/SMO recombinant protein (Position: N476-Q764).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of JK cells using anti-Smoothed/SMO antibody (AAA126028).Overlay histogram showing JK cells stained with AAA126028 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Smoothed/SMO Antibody (AAA126028, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of Smoothed/SMO using anti-Smoothed/SMO antibody (AAA126028).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HeLa whole cell lysates,Lane 2: human K562 whole cell lysates,Lane 3: rat lung tissue lysates,Lane 4: rat stomach tissue lysates,Lane 5: mouse lung tissue lysates,Lane 6: mouse NIH/3T3 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Smoothed/SMO antigen affinity purified polyclonal antibody (#AAA126028) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Smoothed/SMO at approximately 86 kDa. The expected band size for Smoothed/SMO is at 86 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SMO antibody	Smoothed is a protein that in humans is encoded by the SMO gene. 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 transduces signals to other proteins after activation by a hedgehog protein/patched protein complex.
Product Categories/Family for anti-SMO antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	5032099
NCBI GeneID	6608
NCBI Accession #	NP_005622.1
NCBI GenBank Nucleotide #	NM_005631.4
UniProt Accession #	Q99835
Molecular Weight	86,397 Da
NCBI Official Full Name	smoothed homolog
NCBI Official Synonym Full Names	smoothed, frizzled family receptor
NCBI Official Symbol	SMO
NCBI Official Synonym Symbols	Gx; SMOH; FZD11
NCBI Protein Information	smoothed homolog; protein Gx; frizzled family member 11; seven transmembrane helix receptor; smoothed, seven transmembrane spanning receptor
UniProt Protein Name	Smoothed 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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/smoothened-smo-antibody-flow-cytometry-western-blot-elisa/126028>