SMO (Smoothened Homolog). Rabbit Polyclonal Antibody
Smoothened homolog [Precursor], SMO, Gx protein, SMO, SMOH

**BACKGROUND**

SMO is a G protein-coupled receptor (GPCR) that putatively associates with the patched protein (PTCH) to transduce the hedgehog's proteins signal. The binding of sonic hedgehog (SHH) to its receptor patched is thought to prevent normal inhibition by patched of smoothened (SMO). In basal cell carcinoma there are two somatic mutations SMO, D473->H473 and R562 ->Q562.

**IMMUNOGEN**

Synthetic peptide derived from the human SMO protein

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>X2376P</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIZE</td>
<td>100 µg</td>
</tr>
<tr>
<td>FORM</td>
<td>Unconjugated</td>
</tr>
<tr>
<td>HOST/CLONE</td>
<td>Rabbit</td>
</tr>
<tr>
<td>FORMULATION</td>
<td>Provided as solution in phosphate buffered saline with 0.08% sodium azide</td>
</tr>
<tr>
<td>CONCENTRATION</td>
<td>See vial for concentration</td>
</tr>
<tr>
<td>ISOTYPE</td>
<td>IgG</td>
</tr>
<tr>
<td>APPLICATIONS</td>
<td>Western blot</td>
</tr>
<tr>
<td>SPECIES REACTIVITY</td>
<td>Human</td>
</tr>
<tr>
<td>ACCESSION NUMBER</td>
<td>Human Q99835</td>
</tr>
</tbody>
</table>

Western blot using SMO antibody (Cat. No. X2376P) on human brain lysate (Cat. No. X1633C). Lysate loaded at 15µg/lane. Antibody used at 10 µg/ml (1) and 5 µg/ml (2) dilution. Secondary antibody, mouse anti-rabbit-HRP (Cat. No. X1207M), used at 1:150K dilution.

For research use only. Not for use in human diagnostics or therapeutics.
Antibody can be used for Western blotting (1-5µg/ml). Optimal concentration should be evaluated by serial dilutions.

Comments
Brain

Purification
Ammonium Sulfate Precipitation

Ship Conditions
Ship at ambient temperature, freeze upon arrival

Storage Customer
Product should be stored at -20ºC. Aliquot to avoid freeze/thaw cycles

Stability
Products are stable for one year from purchase when stored properly

References
4. Moraea, R.C., et al. 'Constitutive activation of smoothened (SMO) in mammary glands of transgenic mice leads to increased proliferation, altered differentiation and ductal dysplasia.' Development. 2007 Mar;134(6):1231-42.

Product Specific References