

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse Patched 1/PTCH in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant human Patched 1 is observed, and less than 5% cross-reactivity with recombinant mouse Patched-2 is observed.                         |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse Patched 1/PTCH<br>Glu108-Asp422<br>Accession # Q61115                                                                                                                                                                             |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| <b>CyTOF-ready</b>    | Optimal dilution of this antibody should be experimentally determined. |
| <b>Western Blot</b>   | Optimal dilution of this antibody should be experimentally determined. |
| <b>Flow Cytometry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

Patched (Ptch1) is a 170-175 kDa protein that functions in Hedgehog signaling. It is found on multiple cell types and forms a constitutive, inactivating complex with Smoothened. Upon Hedgehog binding to Patched, Smoothened is released and initiates downstream signaling. Mouse Patched is a 12 transmembrane, 1434 amino acid (aa) glycoprotein that contains two terminal cytoplasmic domains. Only one mRNA species for Ptch1 has been reported in mice. However, two or more splice forms may exist, with variation occurring over the first 150 aa of the N-terminus. Mouse Patched shares 97% and 99% aa sequence identity with human and rat Patched, respectively.

#### PRODUCT SPECIFIC NOTICES

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