

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse Patched 2/PTCH2 in ELISAs. In direct ELISAs, less than 10% cross-reactivity with recombinant mouse Patched 1 or recombinant human Patched 2 is observed.                                                                                                      |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2A</sub> Clone # 865619                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse Patched 2/PTCH2<br>Glu79-Ser394<br>Accession # O35595                                                                                                                                                                             |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 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.

**Immunohistochemistry** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

#### BACKGROUND

Patched 2 (Ptch2) is a 180-200 kDa 12 transmembrane member of the Patched family. It is less widely expressed than Patched 1, but is found at high levels in skin and spermatocytes. The 1182 amino acid (aa) mouse Patched 2 contains two terminal cytoplasmic domains between aa 1-57 and aa 1108-1182. Together with Smoothened (SMO), Patched 2 forms a membrane complex that serves as a receptor for Sonic Hedgehog (Shh). Over the first extracellular loop (aa 79-394), mouse Patched 2 shares 95% aa sequence identity with human Patched 2. Mouse Patched 2 has one potential 1117 aa isoform that lacks aa 207-271.

#### PRODUCT SPECIFIC NOTICES

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