

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects mouse Patched 1/PTCH (First Extracellular Loop) in direct ELISAs and Western blots. In direct ELISAs and Western blots, 15% cross-reactivity with recombinant human Patched 2 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 413220
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse Patched 1/PTCH Glu108-Asp422 Accession # Q61115
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
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 homolog 1 (PTCH, also called PTC, PTC1 or PTCH1) is a 170-175 kDa member of the Patched family of proteins. It is found on multiple cells types and forms a constitutive, inactivating complex with Smoothened. Upon SHH binding to PTC1, Smoothened is released and initiates downstream signaling. Mouse PTCH is a 12 transmembrane, 1434 aa glycoprotein that contains two terminal cytoplasmic domains. Only one mRNA species for PTCH has been reported in mice. However, it would appear likely that two or more splice forms exist, with variation occurring over the first 150 aa of the N-terminus. Over aa 108-422, mouse PTCH shares 97% and 99% aa sequence identity with human and rat PTCH, respectively.

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