

Human Patched 2/PTCH2 Antibody

Monoclonal Mouse IgG_{2A} Clone # 403438 Catalog Number: MAB4078

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Patched 2/PTCH2 in direct ELISA and Western Blots.		
Source	Monoclonal Mouse IgG _{2A} Clone # 403438		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human Patched 2/PTCH2 Glu79-Glu392 Accession # Q9Y6C5		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

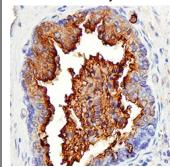
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Immunohistochemistry	8-25 μg/mL	See Below

Western Blot

Detection of Human Patched 2/PTCH2 by Western Blot. Western blot shows lysates of OVCAR-3 human ovarian carcinoma cell line, WS-1 human fetal skin fibroblast cell line, and Bowes human melanoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human Patched 2/PTCH2 Monoclonal Antibody (Catalog # MAB4078) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Patched 2/PTCH2 at approximately 280 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



Patched 2/PTCH2 in Human Cervical Cancer Tissue. Patched 2/PTCH2 was detected in immersion fixed paraffinembedded sections of human cervical cancer tissue using Mouse Anti-Human Patched 2/PTCH2 Monoclonal Antibody (Catalog # MAB4078) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffinembedded Tissue Sections

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

Patched 2 (PTCH2) is a 180-200 kDa 12 transmembrane member of the Patched family. Human PTCH2 is 1203 amino acids (aa) in length. It has two terminal cytoplasmic domains, one between aa 1-57, and a second between aa 1115-1203. Together with Smoothened (SMO), PTCH2 forms a membrane complex that serves as a receptor for Sonic Hedgehog (SHH). Human PTCH2 likely has two isoforms. One shows an eight aa extension of the C-terminus, while a second shows a four aa substitution for the C-terminal 61 amino acids (aa 1143-1203). Over the first extracellular loop human PTCH2 shares 95% and 96% aa sequence identity with mouse and canine PTCH2, respectively.

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