Human/Rat PTK7/CCK4 Antibody

Monoclonal Mouse IgG_1 Clone # 525222

Catalog Number: MAB4499

DESCRIPTION

Species Reactivity	Human/Rat
Specificity	Detects human and rat PTK7/CCK4 in Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 525222
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human PTK7/CCK4 Ala31-Ser199 Accession # Q13308
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.

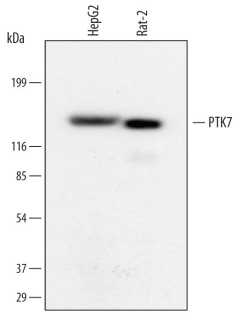
APPLICATIONS

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
Simple Western	20 µg/mL	See Below

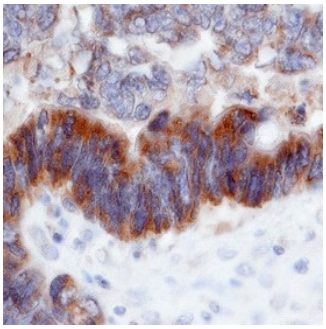
DATA

Western Blot



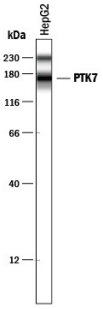
Detection of Human and Rat PTK7/CCK4 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line and Rat-2 rat embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human/Rat PTK7/CCK4 Monoclonal Antibody (Catalog # MAB4499) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for PTK7/CCK4 at approximately 160 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



PTK7/CCK4 in Human Colon Cancer Tissue. PTK7/CCK4 was detected in immersion fixed paraffin-embedded sections of human colon cancer tissue using Mouse Anti-Human/Rat PTK7/CCK4 Monoclonal Antibody (Catalog # MAB4499) at 25 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 labeling was localized to the cytoplasm of epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Simple Western



Detection of Human PTK7/CCK4 by Simple Western™. Simple Western lane view shows lysates of HepG2 human hepatocellular carcinoma cell line, loaded at 0.2 mg/mL. A specific band was detected for PTK7/CCK4 at approximately 168 kDa (as indicated) using 20 µg/mL of Mouse Anti-Human/Rat PTK7/CCK4 Monoclonal Antibody (Catalog # MAB4499). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody.

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.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449

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BACKGROUND

Protein tyrosine kinase 7 (PTK7), also known as colon carcinoma kinase 4 (CCK4), is a receptor tyrosine kinase (RTK) involved in colon carcinoma development and/or proliferation. Similar to the RTK HER3, PTK7 contains a catalytically inactive tyrosine kinase domain, suggesting a potential tumor-characteristic role as a signal amplifier or modulator for an as yet unidentified kinase-competent partner. PTK7 may also play a role during gastrulation in the rodent embryo.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449