

Human MKP-1 Antibody

Monoclonal Rat IgG_{2A} Clone # 408612 Catalog Number: MAB7168

DESCRIPTION			
Species Reactivity	Human Detects human MKP-1 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) MKP-2, rhMKP-3, or rhMKP-5 is observed.		
Specificity			
Source	Monoclonal Rat IgG _{2A} Clone # 408612		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human MKP-1 Met1-Cys367 Accession # P28562		
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.		

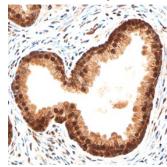
APPLICATIONS

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
Immunohistochemistry	8-25 μg/mL	See Below

DATA

Immunohistochemistry



MKP-1 in Human Prostate. MKP-1 was detected in immersion fixed paraffinembedded sections of human prostate using Rat Anti-Human MKP-1 Monoclonal Antibody (Catalog # MAB7168) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei and cytoplasm of epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL.

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

- 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.

BACKGROUND

MKP-1, also known as PTPN10, DUSP1, and CL100, is an approximately 45 kDa Ser/Thr protein phosphatase that dephosphorylates p38 MAPK and JNK. Acetylation of MKP-1 enhances this activity and limits the inflammation-induced signaling downstream of TLR proteins. Within aa 1-367, human MKP-1 shares 97% aa sequence identity with mouse and rat MKP-1.

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