

DESCRIPTION

Species Reactivity	Human
Specificity	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.
Source	Monoclonal Rat IgG _{2A} Clone # 408612
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human MKP-1 Met1-Cys367 Accession # P28562
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

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

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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