

Datasheet for ABIN7603184
anti-DUSP1 antibody (N-Term)



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Overview

Quantity:	100 µg
Target:	DUSP1
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DUSP1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-MKP-1/DUSP1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human MKP-1/DUSP1, which shares 96.3% amino acid (aa) sequence identity with both mouse and rat MKP-1/DUSP1.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-MKP-1/DUSP1 Antibody Picoband® (ABIN7603184). Tested in Flow Cytometry, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	DUSP1
Alternative Name:	DUSP1 (DUSP1 Products)
Background:	Synonyms: Arachidonate 12-lipoxygenase, 12S-type,12S-LOX,12S-lipoxygenase,1.13.11.31,Lipoxin synthase 12-LO,3.3.2.-,Platelet-type lipoxygenase 12,ALOX12,12LO, LOG12, Tissue Specificity: Expressed in vascular smooth muscle cells. . Background: Dual specificity protein phosphatase 1 is an enzyme that in humans is encoded by the DUSP1 gene. The protein encoded by this gene is a phosphatase with dual specificity for tyrosine and threonine. The encoded protein can dephosphorylate MAP kinase MAPK1/ERK2, which results in its involvement in several cellular processes. This protein appears to play an important role in the human cellular response to environmental stress as well as in the negative regulation of cellular proliferation. Finally, the encoded protein can make some solid tumors resistant to both chemotherapy and radiotherapy, making it a target for cancer therapy.
Molecular Weight:	40 kDa
Gene ID:	1843
UniProt:	P28562

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human 1. Alessi, D. R., Smythe, C., Keyse, S. M. The human CL100 gene encodes a tyr/thr-protein phosphatase which potently and specifically inactivates MAP kinase and suppresses its activation by oncogenic ras in Xenopus oocyte extracts. Oncogene 8: 2015-2020, 1993. 2. Bhalla, U. S., Ram, P. T., Iyengar, R. MAP kinase phosphatase as a locus of flexibility in a mitogen-activated protein kinase signaling network. Science 297: 1018-1023, 2002. 3. Brondello, J.-M., Pouyssegur, J., McKenzie, F. R. Reduced MAP kinase phosphatase-1 degradation after p42/p44(MAPK)-dependent phosphorylation. Science 286: 2514-2517, 1999.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Handling

Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.