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Anti-DUSP22 Antibody

Catalog # AP60269

Product Information

Application	WB, IF/IC
Primary Accession	Q9NRW4
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20910

Additional Information

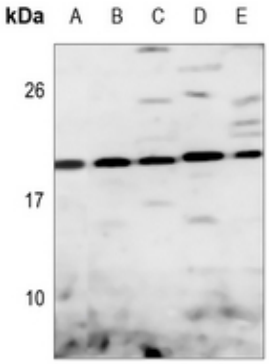
Gene ID	56940
Other Names	JSP1; LMWDSP2; MKPX; Dual specificity protein phosphatase 22; JNK-stimulatory phosphatase-1; JSP-1; Low molecular weight dual specificity phosphatase 2; LMW-DSP2; Mitogen-activated protein kinase phosphatase x; MAP kinase phosphatase x; MKP-x
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human DUSP22. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

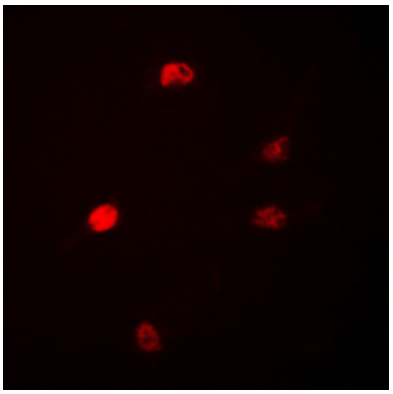
Name	DUSP22
Synonyms	JSP1, LMWDSP2, MKPX
Function	Dual specificity phosphatase; can dephosphorylate both phosphotyrosine and phosphoserine or phosphothreonine residues (PubMed:24714587, PubMed:38225265). Activates the JNK signaling pathway (PubMed:11717427). Inhibits T-cell receptor signaling and T-cell mediated immune responses, acting, at least in part, by inducing degradation of E3 ubiquitin ligase UBR2 (PubMed:24714587, PubMed:38225265). Dephosphorylates and thereby induces 'Lys-48'-linked ubiquitination of UBR2, leading to proteasomal degradation of UBR2 (PubMed:38225265). Dephosphorylates and thereby inactivates tyrosine kinase LCK (PubMed:24714587). Inhibits UBR2-mediated 'Lys-63'-linked ubiquitination of LCK (PubMed:38225265). May play a role in B-cell receptor (BCR) signaling and B-cell function (By similarity).

Cellular Location	Cytoplasm.
Tissue Location	Ubiquitous. Highest expression seen in heart, placenta, lung, liver, kidney and pancreas

Images



Western blot analysis of DUSP22 expression in SHSY5Y (A), mouse liver (B), mouse heart (C), rat liver (D), rat heart (E) whole cell lysates. (Predicted band size: 20 kD; Observed band size: 21 kD)



Immunofluorescent analysis of DUSP22 staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.