

Anti-DUSP22 Antibody

Rabbit polyclonal antibody to DUSP22 Catalog # AP60269

Specification

Anti-DUSP22 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Calculated MW WB, IF/IC <u>O9NRW4</u> <u>O99N11</u> Human, Mouse, Rat Rabbit Polyclonal 20910

Anti-DUSP22 Antibody - 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 0.09% (W/V) sodium azide.

Storage Store at -20 °C.Stable for 12 months from date of receipt

Anti-DUSP22 Antibody - Protein Information

Name DUSP22

Synonyms JSP1, LMWDSP2, MKPX

Function

Dual specificity phosphatase; can dephosphorylate both phosphotyrosine and phosphoserine or phosphothreonine residues (PubMed:24714587, PubMed:<a href="http://www.uniprot.org/citations/38225265"



target="_blank">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: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

Anti-DUSP22 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- <u>Dot Blot</u>
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-DUSP22 Antibody - 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.





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).

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