10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DUSP22 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50831

Product Information

Application	WB
Primary Accession	Q9NRW4
Reactivity	Human, Mouse
Host	Rabbit
Clonality	polyclonal
Calculated MW	20910

Additional Information

Gene ID	56940
Other Names	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, DUSP22, JSP1, LMWDSP2, MKPX
Dilution	WB~~ 1:1000
Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20℃

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

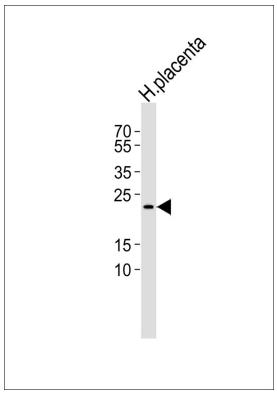
Background

Activates the Jnk signaling pathway. Dephosphorylates and deactivates p38 and stress-activated protein kinase/c-Jun N- terminal kinase (SAPK/JNK) (By similarity).

References

Shen Y.,et al.Proc. Natl. Acad. Sci. U.S.A. 98:13613-13618(2001).
Gu J.,et al.Submitted (JUL-1999) to the EMBL/GenBank/DDBJ databases.
Mao Y.,et al.Submitted (MAR-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mungall A.J.,et al.Nature 425:805-811(2003).

Images



Western blot analysis of lysate from human placenta tissue lysate,using DUSP22 Antibody, was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug.

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