

DUSP2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9084B

Product Information

Application	WB, FC, E
Primary Accession	Q05923
Other Accession	Q05922
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	34400
Antigen Region	262-290

Additional Information

Gene ID	1844
Other Names	Dual specificity protein phosphatase 2, Dual specificity protein phosphatase PAC-1, DUSP2, PAC1
Target/Specificity	This DUSP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 262-290 amino acids from the C-terminal region of human DUSP2.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DUSP2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DUSP2 (HGNC:3068)
Synonyms	PAC1
Function	Dephosphorylates both phosphorylated Thr and Tyr residues in MAPK1, and

dephosphorylation of phosphotyrosine is slightly faster than that of phosphothreonine (PubMed:[8107850](#)). Can dephosphorylate MAPK1 (By similarity).

Cellular Location

Nucleus.

Tissue Location

Expressed in hematopoietic tissues.

Background

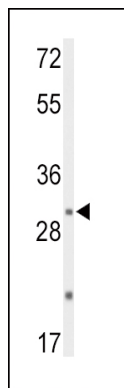
DUSP2 is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli.

References

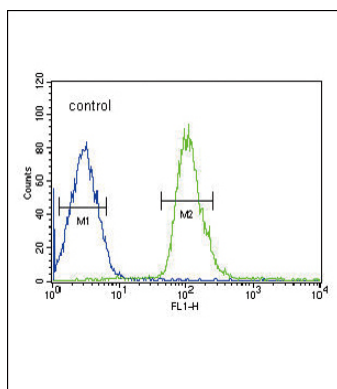
Caunt,C.J., et.al., J. Biol. Chem. 283 (10), 6241-6252 (2008)

Baranyai,R., et.al., Neuropsychobiology 57 (3), 146-150 (2008)

Images



Western blot analysis of DUSP2 Antibody (C-term) (Cat. #AP9084b) in mouse liver tissue lysates (35ug/lane). DUSP2 (arrow) was detected using the purified Pab.



DUSP2 Antibody (C-term) (Cat. #AP9084b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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