

DUSP18 Rabbit pAb

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Catalog # AP55582

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8NEJ0
Reactivity	Rat
Predicted	Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21066
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DUSP18
Epitope Specificity	1-100/188
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Dual-specificity phosphatases (DUSPs) constitute a large heterogeneous subgroup of the type I cysteine-based protein-tyrosine phosphatase superfamily. DUSPs are characterized by their ability to dephosphorylate both tyrosine and serine/threonine residues. They have been implicated as major modulators of critical signaling pathways. DUSP18 contains the consensus DUSP C-terminal catalytic domain but lacks the N-terminal CH2 domain found in the MKP (mitogen-activated protein kinase phosphatase) class of DUSPs (see MIM 600714) (summary by Patterson et al., 2009 [PubMed 19228121]).[supplied by OMIM, Dec 2009]

Additional Information

Gene ID	150290
Other Names	Dual specificity protein phosphatase 18, 3.1.3.16, 3.1.3.48, Low molecular weight dual specificity phosphatase 20, LMW-DSP20, DUSP18, LMWDSP20
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

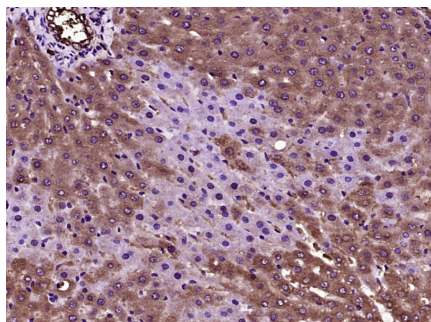
Protein Information

Name	DUSP18
Synonyms	LMWDSP20
Function	Can dephosphorylate single and diphosphorylated synthetic MAPK peptides, with preference for the phosphotyrosine and diphosphorylated forms over phosphothreonine. In vitro, dephosphorylates p-nitrophenyl phosphate (pNPP). In bone tissue, upon activation of the G(q)-dependent KISS1/KISS1R signaling pathway, DUSP18 is recruited to the KISS1R C-terminus where it dephosphorylates SRC, resulting in down-regulation of osteoclast differentiation and activity, and consequently suppression of bone resorption (By similarity).
Cellular Location	Cytoplasm. Nucleus. Mitochondrion inner membrane {ECO:0000250 UniProtKB:Q8VE01}; Peripheral membrane protein {ECO:0000250 UniProtKB:Q8VE01}; Intermembrane side {ECO:0000250 UniProtKB:Q8VE01}. Note=Translocates to cytoplasm in response to apoptotic stimuli such as staurosporine treatment {ECO:0000250 UniProtKB:Q8VE01}
Tissue Location	Widely expressed with highest levels in liver, brain, ovary and testis.

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Images



Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DUSP18) Polyclonal Antibody, Unconjugated (AP55582) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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