

DUS7 rabbit pAb

Catalog No :	YT7554
Reactivity :	Human;Mouse;Rat
Applications :	WB
Target :	DUS7
Fields :	>>MAPK signaling pathway
Gene Name :	DUSP7 PYST2
Protein Name :	DUS7
Human Gene Id :	1849
Human Swiss Prot No :	Q16829
Mouse Gene Id :	235584
Mouse Swiss Prot No :	Q91Z46
Rat Swiss Prot No :	Q63340
Immunogen :	Synthesized peptide derived from human DUS7 AA range: 210-260
Specificity :	This antibody detects endogenous levels of DUS7 at Human/Mouse/Rat
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 46kD

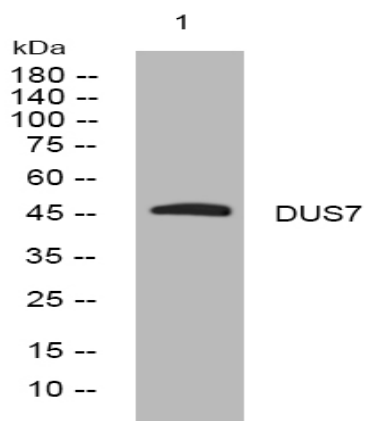
Background : Dual-specificity phosphatases (DUSPs) constitute a large heterogeneous subgroup of the type I cysteine-based protein-tyrosine phosphatase superfamily. DUSPs are characterized by their ability to dephosphorylate both tyrosine and serine/threonine residues. DUSP7 belongs to a class of DUSPs, designated MKPs, that dephosphorylate MAPK (mitogen-activated protein kinase) proteins ERK (see MIM 601795), JNK (see MIM 601158), and p38 (see MIM 600289) with specificity distinct from that of individual MKP proteins. MKPs contain a highly conserved C-terminal catalytic domain and an N-terminal Cdc25 (see MIM 116947)-like (CH2) domain. MAPK activation cascades mediate various physiologic processes, including cellular proliferation, apoptosis, differentiation, and stress responses (summary by Patterson et al., 2009 [PubMed 19228121]).[supplied by OMIM, Dec 2009],

Function : catalytic activity:A phosphoprotein + H(2)O = a protein + phosphate.,catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,caution:An out-of-frame translation product, PYST2SB, has been experimentally demonstrated to be formed from the alternative promoter. The expression of the in-frame product has not yet been shown.,function:Regulates the activity of the MAP kinase family in response to changes in the cellular environment. PYST2-S may act as a negative regulator of PYST2-L although it is unclear whether this is by competing for transcription, translation or activation factors.,similarity:Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily.,similarity:Contains 1 rhodanese domain.,similarity:Contains 1 tyrosine-protein phosphatase domain.,tissue specificity:Expressed at significantly higher levels in malignant

Subcellular Location : Cytoplasm .

Expression : Strongly expressed in liver (PubMed:8670865). Expressed at significantly higher levels in malignant hematopoietic cells than in corresponding non-malignant cells (PubMed:14576828).

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Western blot analysis of lysates from PC-12 cells, primary antibody was diluted at 1:1000, 4° over night