

DUSP6/MKP3 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 42	Source/Isotype: Rabbit	UniProt ID: #Q16828	Entrez-Gene Id: 1848
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM so 20°C. Do not aliquot t	31	5), 150 mM NaCl, 100 μg	/ml BSA and 50% gl	lycerol. Store at –
Specificity/Sensitivity		DUSP6/MKP3 Antibody recognizes endogenous levels of total DUSP6/MKP3 protein. This antibody also cross-reacts with an unidentified protein of 50 kDa in some cell extracts.				
Species predictories based on 100% homology	ed to react sequence	Mouse, Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val372 of human DUSP6/MKP3 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		MAP kinases are inactivated by dual-specificity protein phosphatases (DUSPs) that differ in their substrate specificity, tissue distribution, inducibility by extracellular stimuli, and cellular localization. DUSPs, also known as MAPK phosphatases (MKPs), specifically dephosphorylate both threonine and tyrosine residues in MAPK P-loops and have been shown to play important roles in regulating the function of the MAPK family (1,2). At least 13 members of the family (DUSP1-10, DUSP14, DUSP16, and DUSP22) display unique substrate specificities for various MAP kinases (3). MAPK phosphatases typically contain an amino-terminal rhodanese-fold responsible for DUSP docking to MAPK family members and a carboxy-terminal catalytic domain (4). These phosphatases can play important roles in development, immune system function, stress responses, and metabolic homeostasis (5). In addition, research studies have implicated DUSPs in the development of cancer and the response of cancer cells to chemotherapy (6).				
Background References		 Camps, M. et al. (2000) FASEB J 14, 6-16. Theodosiou, A. and Ashworth, A. (2002) Genome Biol 3, REVIEWS3009. Salojin, K. and Oravecz, T. (2007) J Leukoc Biol 81, 860-9. Tanoue, T. et al. (2002) J Biol Chem 277, 22942-9. Dickinson, R.J. and Keyse, S.M. (2006) J Cell Sci 119, 4607-15. Wu, G.S. (2007) Cancer Metastasis Rev 26, 579-85. 				
Species Reactiv	ity	Species reactivity is d	etermined by testin	g in at least one approv	ed application (e.g.,	western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human

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