5029 Store at -200

MLK1 (D66E2) Rabbit mAb



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

Applications: WB, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 120	Source/Isotype: Rabbit IgG	UniProt ID: #P80192	Entrez-Gene Id: 4293	
Product Usage Information	Ар	plication		Dilution			
	Western Blotting			1:1000			
	Imr	munoprecipitation		1:50			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensiti	,	MLK1 (D66E2) Rabbit mAb detects endogenous levels of total MLK1 protein. The antibody also cross-reacts with a 45 kDa protein of unknown origin.					
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu1070 of human MLK1 protein.					
Background	dua shan amo term are and fund	Mixed-lineage kinases (MLKs) belong to the mitogen activated kinase kinase kinase (MAPKKK) family of dual-specificity protein kinases. While not particularly well conserved at the sequence level, MLK1, 2 and 3 share a conserved domain structure consisting of a catalytic core and two isoleucine/leucine zipper motifs among other protein-protein binding domains (1). MLK1 preferentially stimulates the JNK (c-Jun aminoterminal kinase) pathway in response to agonists and stress (2). Although multiple phosphorylation events are required for full activation of MLK1, two autophosphorylation sites within the activation loop (Ser308 and Thr312) appear to be the predominant activation residues (3). In neuronal cells, MLK1 appears to function downstream of the small G-proteins Rac1 and Cdc42 and upstream of MKK4 and MKK7 to promote apoptosis (2).					
Background Refere	2. X	 Dorow, D.S. et al. (1993) Eur J Biochem 213, 701-10. Xu, Z. et al. (2001) Mol Cell Biol 21, 4713-24. Durkin, J.T. et al. (2004) Biochemistry 43, 16348-55. 					

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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