

#19607 Store at -20°C

MEKK2 Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	78	Rabbit	#Q9Y2U5	10746

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	MEKK2 Antibody recognizes endogenous levels of total MEKK2 protein. This antibody does not cross-react with MEKK3 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly292 of human MEKK2 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Mitogen-activated protein kinase kinase kinase 2 (MEKK2/MAP3K2) belongs to the MAP3K family of Ser/Thr kinases. Research studies have demonstrated that MEKK2 plays a pivotal role in transducing mitogenic signals emanating from EGFR and FGF2R to JNK and ERK5 signaling cascades (1,2). Post-translationally, MEKK2 is regulated through multiple mechanisms, including dimerization (3,4), ubiquitination (5,6), phosphorylation (7), and methylation (8). Research studies implicate dysregulation of MEKK2 signaling in breast carcinoma (9), colorectal carcinoma (10), and pancreatic ductal adenocarcinoma (8).	
Background References	<ol style="list-style-type: none"> 1. Sun, W. et al. (2003) <i>Mol Cell Biol</i> 23, 2298-308. 2. Kesavan, K. et al. (2004) <i>J Cell Physiol</i> 199, 140-8. 3. Cheng, J. et al. (2005) <i>Mol Cell Biol</i> 25, 5955-64. 4. Cheng, J. et al. (2005) <i>J Biol Chem</i> 280, 13477-82. 5. Takeda, A.N. et al. (2014) <i>EMBO J</i> 33, 1784-801. 6. Yamashita, M. et al. (2005) <i>Cell</i> 121, 101-13. 7. Zhang, D. et al. (2006) <i>EMBO J</i> 25, 97-107. 8. Mazur, P.K. et al. (2014) <i>Nature</i> 510, 283-7. 9. Mirza, A.A. et al. (2014) <i>Biochim Biophys Acta</i> 1843, 945-54. 10. Jiang, L. et al. (2013) <i>Oncol Lett</i> 6, 1333-37. 	

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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