Phospho-MKK7 (Ser271/Thr275) Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 48	Source/Isotype: Rabbit	UniProt ID: #O14733	Entrez-Gene Id: 5609
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-MKK7 (Ser171/Thr275) Antibody detects endogenous levels of MKK7 phosphorylated at serine 271 and threonine 275. This antibody does not cross-react with phosphorylated SEK1/MKK4 or other phosphorylated MAP kinase kinases.				
Species predic based on 100% homology		Mouse, Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser271/Thr275 of human MKK7. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		MKK7 is a MAP kinase kinase that serves as a specific activator of the SAPK/JNK pathway (1,2). MKK7 is strongly activated by TNF-α, as well as other environmental stresses, whereas SEK1/MKK4, which activates both p38 and SAPK/JNK pathways, is not activated by TNF-α (2). Sequence alignment of the activation loop of the MAP kinase kinase family members indicates that Ser271 and Thr275 are potential phosphorylation sites that are crucial for the kinase acivity.				
Background References		1. Tournier, C. et al. (1999) <i>Mol. Cell. Biol.</i> 19, 1569-1581. 2. Moriguchi, T. et al. (1997) <i>EMBO J.</i> 16, 7045-7053.				
Species Reacti	vity	Species reactivity is d	letermined by testin	g in at least one approve	ed 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		W: Western Blotting				
Cross-Reactivity Key		H: Human				
Trademarks and Patents		Cell Signaling Techno	ology is a trademark	of Cell Signaling Techno	logy, Inc.	
		All other trademarks more information.	are the property of	their respective owners.	Visit cellsignal.com	/trademarks for
Limited Uses		Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.				
		Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for				

Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a

component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.