Phospho-Tpl2 (Ser400) Antibody



Orders:

877-616-CELL (2355) orders@cellsignal.com

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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

or Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: I WB	Reactivity: R	Sensitivity: Transfected Only	MW (kDa): 60, 62	Source: Rabbit	UniProt ID: #P41279	Entrez-Gene Id: 1326	
Product Usage Information	Aŗ	plication			Dilution		
	We	estern Blotting			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-Tpl2 (Ser400) Antibody detects transfected Tpl2 only when phosphorylated at Ser400. This antibody does not cross-react with other phosphorylated MAP kinase kinase kinases.					
Species predicted to react based on 100% sequence homology	6	man, Mouse					
Source / Purification	pep	Polyclonal antibodies are produced by immunizing animals with a mixture synthetic phosphorylated peptides corresponding to residues surrounding Ser400 of human, mouse and rat Tpl2. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	exp kina eng deg dep Tpl:	Tpl2 (tumor progression locus 2), also known as COT (cancer osaka thyroid), is a serine/threonine kinase expressed primarily in hematopoietic tissues, lung and liver (1). Over-expression of Tpl2 potentiates MAP kinase pathways through MEK1 and SEK1, as well as through MKK6 and MEK5 (2,3). Tpl2 is also engaged in NF-kB activation through NF-kB inducing kinase (NIK), or by inducing phosphorylation and degradation of the NF-kB precusor, p105 NF-kB1 (4,5). Ser400 of Tpl2 is phosphorylated in an Akt-dependent manner. This phosphorylation is required for Tpl2-induced NF-kB-dependent transcription (6). Tpl2 also activates caspase-3 by promoting the assembly of a protein complex of Apaf1 (apoptotic protease-activating factor 1), caspase-9, Tpl2, adaptor protein Tvl1 and procaspase-3 (7).					
Background Referen	2. S	 Patriotis, C. et al. (1993) Proc Natl Acad Sci U S A 90, 2251-5. Salmeron, A. et al. (1996) EMBO J 15, 817-26. Chiariello, M. et al. (2000) Mol Cell Biol 20, 1747-58. 					

- 4. Lin, X. et al. (1999) Immunity 10, 271-80.
- 5. Belich, M.P. et al. (1999) Nature 397, 363-8.
- 6. Kane, L.P. et al. (2002) Mol Cell Biol 22, 5962-74.
- 7. Patriotis, C. et al. (2001) J Cell Physiol 187, 176-87.

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

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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3/23/24, 11:10 AM **Limited Uses**

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