#8155 Store at -20C

Phospho-TAB2 (Ser372) (D5A4) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 80-84	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NYJ8	Entrez-Gene Id 23118	
Product Usage Information	Ар	plication		Dilution			
	We	Western Blotting			1:1000		
	lmı	munoprecipitation		1:100			
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 / Sensitivity		Phospho-TAB2 (Ser372) (D5A4) Rabbit mAb recognizes endogenous levels of TAB2 protein only when phosphorylated at Ser372.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser372 of human TAB2 protein.					
Background	sign trigg TRA MAI	TAK1 is a mitogen-activated protein kinase kinase kinase activated by TGF-β and various pro-inflammatory signals (1,2). <i>In vivo</i> , TAK1 activation requires its association with TAK1 binding protein 1 (TAB1), which triggers TAK1 autophosphorylation at Thr184 and Thr187 (3,4). The TAB2 adaptor protein links TAK1 with TRAF6 to mediate TAK1 activation following IL-1 stimulation (5). Once activated, TAK1 phosphorylates the MAPK kinases MKK4 and MKK3/6, which activate JNK and p38 MAPK, respectively. TAK1 and TRAF6 also activate the NF-κB pathway by phosphorylating the NF-κB inducing kinase (NIK) to trigger subsequent					

lethality (8).
TAK1 is associated with TAB1 as well as either TAB2 or TAB3 (9). Activation of TAK1 is triggered by K63-ubiquitination of TRAF6, resulting in binding to TAB2 and TAB3 and autophosphorylation of TAK1 (10-12).
Multiple phosphorylation sites have been identified in all three TAB family members that are triggered by IL-1 (13,14). TAB2 phosphorylation was identified at Ser372 and Ser524 (14).

activation of IKK (2,6). In addition to TAK1, TAB1 interacts with and activates p38α MAPK (7). Targeted disruption of the TAB1 gene in mice causes a drastic reduction in TAK1 activity and leads to embryonic

Background References

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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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