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Phospho-Tyk2 (Tyr1054/1055) (D7T8A) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 134	Source/Isotype: Rabbit IgG	UniProt ID: #P29597	Entrez-Gene Id: 7297	
Product Usage	Ар	plication			Dilution		
Information	We	estern Blotting			1:1000		
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 / Sens	cificity / Sensitivity Phospho-Tyk2 (Tyr1054/1055) (D7T8A) Rabbit mAb recognizes endogenous levels of Tyk2 protein only when phosphorylated at Tyr1054 and Tyr1055. Cross-reactivity was not observed with other Jak family members.						
Species predicte react based on 1 sequence homol	00%	ıse, Rat					
Source / Purification Monoclonal antibody is produced by into residues surrounding Tyr1054/1055				munizing animals with a synthetic phospho-peptide corresponding of human Tyk2 protein.			
receptors for many cytokines including				rotein tyrosine kinases. It associates with and is activated by IL-13, the IL-6 family, IL-10, and IFN- α and β (1-3). Following ligand rlation of Tyr1054 and/or Tyr1055 (4). Tyk2 is required for the IFN- β signaling cascade (5).			

The role of Tyk2 has been extensively studied in terms of its involvement in immune regulation and pathological significance (reviewed in 6). Deletion of Tyk2 in mice results in increased sensitivity to infection and defective tumor surveillance, but only a partial effect on Type I interferon signaling (7, 8). In contrast, a human patient diagnosed with hyper-IgE syndrome having increased susceptibility to various microorganisms was found to have a homozygous mutation of Tyk2 (9). These studies suggest a more critical role of Tyk2 in humans with regards to Type I interferon signaling as well as other cytokines

including IL-23, IL-6, and IL-10.

Background References 1. Velazquez, L. et al. (1995) J. Biol. Chem. 270, 3327-34.

2. Stahl, N. et al. (1994) Science 263, 92-5.

3. Leonard, W.J. (1998) Annu. Rev. Immunol. 16, 293-322.

4. Gauzzi, M.C. et al. (1996) J Biol Chem 271, 20494-500.

5. Rani, M.R. et al. (1999) J. Biol. Chem. 274, 32507-11.

6. Strobl, B. et al. (2011) Front Biosci (Landmark Ed) 16, 3214-32.

7. Karaghiosoff, M. et al. (2000) Immunity 13, 549-60.

8. Shimoda, K. et al. (2000) Immunity 13, 561-71.

9. Minegishi, Y. et al. (2006) Immunity 25, 745-55.

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

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, **Western Blot Buffer**

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting 3/23/24. 11:22 AM

Phospho-Tyk2 (Tyr1054/1055) (D7T8A) Rabbit mAb (#68790) Datasheet Without Images Cell Signaling Te...

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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