

Phospho-Tyk2 (Tyr1054/1055) Antibody

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	134	Rabbit	#P29597	7297
Product Usage Information	Application				Dilution	
	Western Blotting				1:1000	
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	Phospho-Tyk2 (Tyr1054/1055) Antibody detects endogenous levels of Tyk2 protein only when phosphorylated at Tyr1054/1055. The antibody does not cross-react with Tyk2 protein phosphorylated at other sites.					
Species predicted to react based on 100% sequence homology	Mouse, Rat					
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1054/1055 of human Tyk2 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	Tyk2 is a member of the Jak family of protein tyrosine kinases. It associates with and is activated by receptors for many cytokines including IL-13, the IL-6 family, IL-10, and IFN-α and β (1-3). Following ligand binding, Tyk2 is activated by phosphorylation of Tyr1054 and/or Tyr1055 (4). Tyk2 is required for the tyrosine phosphorylation of Stat3 in the IFN-β signaling cascade (5).					
Background References	<ol style="list-style-type: none"> 1. Velazquez, L. et al. (1995) <i>J. Biol. Chem.</i> 270, 3327-34. 2. Stahl, N. et al. (1994) <i>Science</i> 263, 92-5. 3. Leonard, W.J. (1998) <i>Annu. Rev. Immunol.</i> 16, 293-322. 4. Gauzzi, M.C. et al. (1996) <i>J Biol Chem</i> 271, 20494-500. 5. Rani, M.R. et al. (1999) <i>J. Biol. Chem.</i> 274, 32507-11. 					

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	W: Western Blotting
Cross-Reactivity Key	H: Human
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