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Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 134	Source/Isotype: Rabbit IgG	UniProt ID: #P29597	Entrez-Gene Id: 7297	
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>					
Specificity/Sen	sitivity	Tyk2 (D4I5T) Rabbit mAb recognizes endogenous levels of total Tyk2 protein. A band of unknown identity at 55 kDa is detected in some cell lines.					
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Tyk2 protein.					
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). 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 R	eferences	 Velazquez, L. et al. (1995) <i>J. Biol. Chem.</i> 270, 3327-34. Stahl, N. et al. (1994) <i>Science</i> 263, 92-5. Leonard, W.J. (1998) <i>Annu. Rev. Immunol.</i> 16, 293-322. Gauzzi, M.C. et al. (1996) <i>J Biol Chem</i> 271, 20494-500. Rani, M.R. et al. (1999) <i>J. Biol. Chem.</i> 274, 32507-11. Strobl, B. et al. (2011) <i>Front Biosci (Landmark Ed)</i> 16, 3214-32. Karaghiosoff, M. et al. (2000) <i>Immunity</i> 13, 549-60. Shimoda, K. et al. (2000) <i>Immunity</i> 13, 561-71. Minegishi, Y. et al. (2006) <i>Immunity</i> 25, 745-55. 					
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivi	ty Key	H: Human Mk: Monkey					
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