4193 Store at -200

Tyk2 (D4I5T) Rabbit mAb



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Applications: WB, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 134	Source/Isotype: Rabbit IgG	UniProt ID: #P29597	Entrez-Gene Id: 7297	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Imi	Immunoprecipitation			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 Tyk2 (D4I5T) Rabbit mAb recognizes end at 55 kDa is detected in some cell lines.			dogenous levels of total Tyk2 protein. A band of unknown identity				
Source / Purificati	rce / Purification Monoclonal antibody is produced by immu residues near the carboxy terminus of hum			unizing animals with a synthetic peptide corresponding to man Tyk2 protein.			
Background	rece binc tyro The path infe con mice	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					

Background References

- 1. Velazquez, L. et al. (1995) J. Biol. Chem. 270, 3327-34.
- 2. Stahl, N. et al. (1994) Science 263, 92-5.

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

- 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).

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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3/23/24, 10:46 AM **Limited Uses**

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