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Tyk2 Antibody

Store at -20C
#9312

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 134	Source/Isotype: Rabbit	UniProt ID: #P29597	Entrez-Gene Id: 7297
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Product Usage Information

Application

Western Blotting

Dilution

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

Tyk2 Antibody detects endogenous levels of total Tyk2 protein. No cross-reactivity was detected with other family members at physiological conditions.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding serine 819 of human Tyk2. 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

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.

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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