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Stat6 Antibody

Store at -20C
#9362

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

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit	UniProt ID: #P42226	Entrez-Gene Id: 6778
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Product Usage Information

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 and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Stat6 Antibody detects endogenous levels of total Stat6 protein.

Species predicted to react based on 100% sequence homology

Bovine

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding amino acid 620 of human Stat6. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Upon activation by Janus kinases, Stat6 translocates to the nucleus where it regulates cytokine-induced gene expression. Stat6 is activated via phosphorylation at Tyr641 and is required for responsiveness to IL-4 and IL-13 (1-4). In addition, Stat6 is activated by IFN-α in B cells, where it forms transcriptionally active complexes with Stat2 and p48 (5,6). Protein phosphatase 2A is also involved in regulation of IL-4-mediated Stat6 signaling (7).

Background References

- Nelms, K. et al. (1999) *Ann. Rev. Immunol.* 17, 701-738.
- Malabarba, M.G. et al. (1996) *Biochem. J.* 319, 865-872.
- Hou, J. et al. (1994) *Science* 265, 1701-1706.
- Quelle, F.W. et al. (1995) *Mol. Cell. Biol.* 15, 3336-3343.
- Takeda, K. et al. (1996) *Nature* 380, 627-630.
- Gupta, S. et al. (1999) *J. Immunol.* 163, 3834-3841.
- Woetmann, A. et al. (2003) *J. Biol. Chem.* 278, 2787-2791.

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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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