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#5397

Stat6 (D3H4) Rabbit mAb

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

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

For optimal ChIP results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10⁶ cells) per IP.

This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

Application	Dilution
Western Blotting	1:1000
Simple Western™	1:10 - 1:50
Immunoprecipitation	1:50
Chromatin IP	1:50

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. *Do not aliquot the antibody.*

For a carrier free (BSA and azide free) version of this product see product #40962.

Specificity/Sensitivity

Stat6 (D3H4) Rabbit mAb recognizes endogenous levels of total Stat6 protein.

Species predicted to react based on 100% sequence homology

Monkey, Bovine, Dog, Pig

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly582 of human Stat6 protein.

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 **W-S:** Simple Western™ **IP:** Immunoprecipitation **ChIP:** Chromatin IP

Cross-Reactivity Key

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

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