

#5397 Store at -20°C

## Stat6 (D3H4) Rabbit mAb



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

### Product Usage Information

For optimal ChIP results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10<sup>6</sup> 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.

### 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

1. Nelms, K. et al. (1999) *Ann. Rev. Immunol.* 17, 701-738.
2. Malabarba, M.G. et al. (1996) *Biochem. J.* 319, 865-872.
3. Hou, J. et al. (1994) *Science* 265, 1701-1706.
4. Quelle, F.W. et al. (1995) *Mol. Cell. Biol.* 15, 3336-3343.
5. Takeda, K. et al. (1996) *Nature* 380, 627-630.
6. Gupta, S. et al. (1999) *J. Immunol.* 163, 3834-3841.
7. 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

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

### 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

## **Trademarks and Patents**

## **Limited Uses**

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