

#9361 Store at -20°C

Phospho-Stat6 (Tyr641) Antibody



Cell Signaling
TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC	H	Endogenous	110	Rabbit	#P42226	6778

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:100
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

Phospho-Stat6 (Tyr641) Antibody detects endogenous levels of Stat6 only when phosphorylated at tyrosine 641. The antibody does not cross-react with the corresponding phospho-tyrosine residues of other Stat proteins.

Species predicted to react based on 100% sequence homology:

Bovine

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr641 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

WB: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

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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