Revision 1

Store at -20C

#9364

Phospho-Stat6 (Tyr641) (C11A12) Rabbit mAb

Cell Signaling TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	100	Rabbit	#P42226	6778

Product Usage Information

Application	Dilution
Western Blotting	1:1000

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

Phospho-Stat6 (Tyr641) (C11A12) Rabbit mAb detects endogenous levels of Stat6 only when phosphorylated at Tyr641. This antibody does not cross-react with the corresponding phospho-tyrosine residues of other Stat proteins. Cross-reactivity has been observed with receptor tyrosine kinases including phosphorylated PDGF receptor that can lead to inapproriate membrane staining.

Species predicted to react based on 100% sequence homology

Monkey

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr641 of human Stat6.

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

W: Western Blotting

Cross-Reactivity Key

H: Human

Trademarks and Patents

Limited Uses

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