Stat3 (79D7) Rabbit mAb (Sepharose® Bead Conjugate)



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| Applications: | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 79, 86 | Source/Isotype: Rabbit IgG | UniProt ID: #P40763 | Entrez-Gene Id 6774 | |
|------------------------------|-------------------------|--|----------------------------|-------------------------------|------------------------|------------------------|--|
| Product Usage Information | Ap | plication | | Dilution | | | |
| | Imi | munoprecipitation | | 1:20 | | | |
| Storage | • | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol. Store at -20° C. Do not aliquot the antibodies. | | | | | |
| Specificity / Sensiti | vity Stat | Stat3 (79D7) Rabbit mAb (Sepharose® Bead Conjugate) detects endogenous levels of total Stat3 protein. | | | | | |
| Source / Purificatio | • • | Monoclonal antibody is produced by immunizing animals with a Stat3 fusion protein corresponding to the carboxy-terminal sequence of mouse Stat3 protein. | | | | | |
| Product Description | hyd | This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated Sepharose® beads. Stat3 (79D7) Rabbit mAb (Sepharose® Bead Conjugate) is useful for the immunoprecipitation assay of Stat3 proteins. | | | | | |
| ИW (kDa) | | 79, 86 | | | | | |

Background

The Stat3 transcription factor is an important signaling molecule for many cytokines and growth factor receptors (1) and is required for murine fetal development (2). Research studies have shown that Stat3 is constitutively activated in a number of human tumors (3,4) and possesses oncogenic potential (5) and antiapoptotic activities (3). Stat3 is activated by phosphorylation at Tyr705, which induces dimerization, nuclear translocation, and DNA binding (6,7). Transcriptional activation seems to be regulated by phosphorylation at Ser727 through the MAPK or mTOR pathways (8,9). Stat3 isoform expression appears to reflect biological function as the relative expression levels of Stat3α (86 kDa) and Stat3β (79 kDa) depend on cell type, ligand exposure, or cell maturation stage (10). It is notable that Stat3β lacks the serine phosphorylation site within the carboxy-terminal transcriptional activation domain (8).

Background References

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- 3. Catlett-Falcone, R. et al. (1999) Immunity 10, 105-15.
- 4. Garcia, R. and Jove, R. (1998) J Biomed Sci 5, 79-85.
- 5. Bromberg, J.F. et al. (1999) Cell 98, 295-303.
- 6. Darnell, J.E. et al. (1994) Science 264, 1415-21.
- 7. Ihle, J.N. (1995) Nature 377, 591-4.
- 8. Wen, Z. et al. (1995) Cell 82, 241-50.
- 9. Yokogami, K. et al. (2000) Curr Biol 10, 47-50.
- 10. Biethahn, S. et al. (1999) Exp Hematol 27, 885-94.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IP: Immunoprecipitation

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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