

Phospho-Stat5 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10346**Specification**

Phospho-Stat5 Antibody - Product Information

Application	WB, IF
Primary Accession	P42230
Other Accession	NP_035618
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	90831

Phospho-Stat5 Antibody - Additional Information**Gene ID** 20850

Application & Usage	Western blotting (1-4 µg/ml) and immunofluorescence (10-20 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes ~90 kDa phosphorylated Stat5 (Tyr694) of human, mouse, and rat origins. Reactivity to other species has not been tested.
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Other Names

Anti-Stat-5, STAT-5

Target/Specificity

Phospho-STAT5

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 50% glycerol, 1% BSA, and 0.02% sodium azide.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

Phospho-Stat5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-Stat5 Antibody - Protein Information

Name Stat5a

Synonyms Mgf, Mpf

Function

Carries out a dual function: signal transduction and activation of transcription. Mediates cellular responses to the cytokine KITLG/SCF and other growth factors. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Binds to the GAS element and activates PRL-induced transcription. Regulates the expression of milk proteins during lactation.

Cellular Location

Cytoplasm. Nucleus. Note=Translocated into the nucleus in response to phosphorylation

Tissue Location

In the virgin, found in most tissues except brain and muscle. During lactation, abundantly found in mammary tissue, as well as in other secretory organs such as salivary gland and seminal vesicle

Phospho-Stat5 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-Stat5 Antibody - Images

Phospho-Stat5 Antibody - Background

Membrane receptor signaling by various ligands induces activation of Jak kinases which then leads to tyrosine phosphorylation of the various Stat transcription factors. Stat1 and Stat2 are induced by IFN- α and form a heterodimer which is part of the ISGF3 transcription factor complex. Although early reports indicate Stat3 activation by EGF and IL-6, it has been shown that Stat3 β appears to be activated by both while Stat3 α is activated by EGF, but not by IL-6. Highest expression of Stat4 is seen in testis and myeloid cells. IL-12 has been identified as an activator of Stat4. Stat5 is activated by prolactin and by IL-3. Stat6 is involved in IL-4 activated signaling pathways.