10320 Camino Santa Fe, Suite G
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Stat4 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10342

Specification

Stat4 Antibody - Product Information

Application	**WB**
Primary Accession	Q66HB2
Other Accession	NP_001012226
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**

Stat4 Antibody - Additional Information

Application & Usage	**Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes ~97 kDa Stat4 in samples from human, mouse, and rat origins. A ~60 kDa band can also be detected, presumably to be the cleavage fragment of Stat4.**

Other Names
Signal transducer and activator of transcription 4, stat -4

Target/Specificity
STAT4

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Stat4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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Stat4 Antibody - Protein Information

Stat4 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 Cytomety
- Cell Culture

Stat4 Antibody - Images

Stat4 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. Altho µgh early reports indicate Stat3 activation by EGF and IL-6, it has been shown that Stat3β appears to be activated by both while Stat3α 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.