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Phospho-Stat6 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10347

Specification

Phospho-Stat6 Antibody - Product Information

Application	**WB**
Primary Accession	P42226
Other Accession	NP_003144
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**94135**

Phospho-Stat6 Antibody - Additional Information

Gene ID 6778

Application & Usage	**Western blotting (1-4 µg/ml) and Immunohistochemistry (20 µg/ml). However, the optimal concentrations should be determined individually.**

Other Names
STAT6B , STAT6C , D12S1644 , IL-4-STAT , interleukin 4 induced STAT

Target/Specificity
Phospho-STAT6

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. The antibody recognizes ~110 kDa phosphorylated Stat6 (Tyr641) of human and mouse origins. Reactivity to other species has not been tested.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Phospho-Stat6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-Stat6 Antibody - Protein Information

Name STAT6

Function
Carries out a dual function: signal transduction and activation of transcription. Involved in IL4/interleukin-4- and IL3/interleukin-3-mediated signaling.

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

Phospho-Stat6 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

Phospho-Stat6 Antibody - Images

Phospho-Stat6 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.