

# Anti-STAT6 Antibody

## ER40121



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IF-Cell, IHC-P, FC
<b>Molecular Wt:</b>	Predicted band size: 94 kDa

**Description:** In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein STAT6 plays a central role in exerting IL4 mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2), expression of cell surface markers, and class switch of immunoglobulins.

**Immunogen:** Synthetic peptide within STAT6 aa 814-847/847.

**Positive control:** Jurkat cell lysate, Raji cell lysate, Daudi cell lysate, Hela cell lysate, Ags cell lysate, human tonsil tissue, human kidney tissue.

**Subcellular location:** Cytoplasm, nucleus.

**Database links:** SwissProt: P42226 Human

**Recommended Dilutions:**

<b>WB</b>	1:1,000
<b>IF-Cell</b>	1:200
<b>IHC-P</b>	1:200
<b>FC</b>	1:100-1:200

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Immunogen affinity purified.

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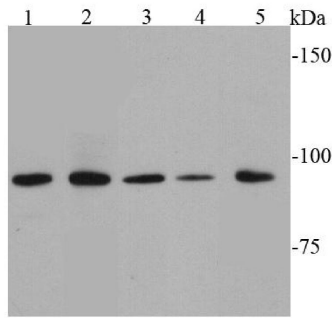
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## Images



**Fig1:** Western blot analysis of STAT6 on different cell lysates using anti-STAT6 antibody at 1/1,000 dilution.

**Positive control:**

Lane 1: Raji cell lysate  
 Lane 2: Daudi cell lysate  
 Lane 3: HeLa cell lysate  
 Lane 4: Ags cell lysate  
 Lane 5: Jurkat cell lysate

**Fig2:** Western blot analysis of STAT6 on different lysates with Rabbit anti-STAT6 antibody (ER40121) at 1/500 dilution.

Lane 1: HeLa-si NT cell lysate  
 Lane 2: HeLa-si STAT6 cell lysate

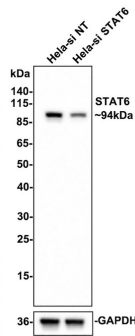
Lysates/proteins at 10 µg/Lane.

Predicted band size: 94 kDa

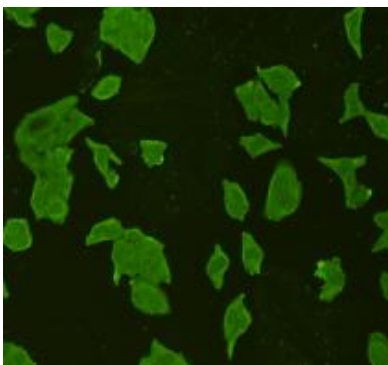
Observed band size: 94 kDa

Exposure time: 46 seconds;

4-20% SDS-PAGE gel.



ER40121 was shown to specifically react with STAT6 in HeLa-si NT cells. Weakened band was observed when HeLa-si STAT6 sample was tested. HeLa-si NT and HeLa-si STAT6 samples were subjected to SDS-PAGE. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM in TBST for 1 hour at room temperature. The primary antibody (ER40121, 1/500) and Loading control antibody (Rabbit anti-GAPDH, ET1601-4, 1/10,000) were used in 5% BSA at room temperature for 2 hours. Goat Anti-rabbit IgG-HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.



**Fig3:** ICC staining STAT6 in HeLa cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

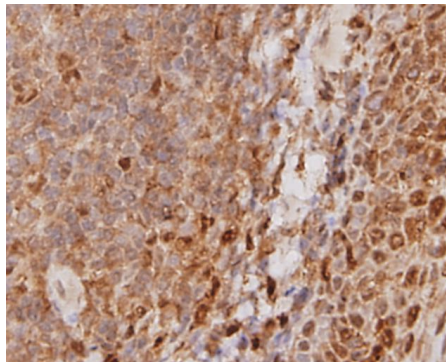
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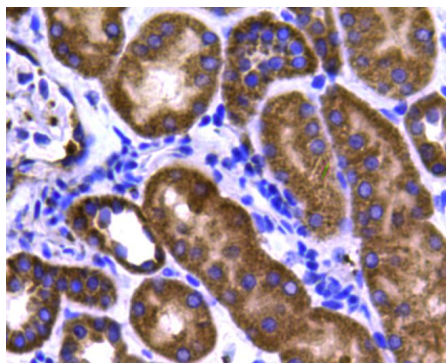
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**Fig4:** Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-STAT6 antibody. Counter stained with hematoxylin.



**Fig5:** Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-STAT6 antibody. Counter stained with hematoxylin.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. "Structure of the NCoA-1/SRC-1 PAS-B domain bound to the LXXLL motif of the STAT6 transactivation domain." Razeto A., Ramakrishnan V., Litterst C.M., Giller K., Griesinger C., Carlomagno T., Lakomek N., Heimburg T., Lodrini M., Pfitzner E., Becker S. J. Mol. Biol. 336:319-329(2004)
2. "T-cell protein tyrosine phosphatase, distinctively expressed in activated-B-cell-like diffuse large B-cell lymphomas, is the nuclear phosphatase of STAT6." Lu X., Chen J., Sasmono R.T., Hsi E.D., Sarosiek K.A., Tiganis T., Lossos I.S. Mol. Cell. Biol. 27:2166-2179(2007)

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