

Anti-Phospho-STAT6 (Tyr641) Antibody (6Y738)

Product Details

Ig Type:	Rabbit IgG Human;
Reactivity:	Species predicted to react based on 100% sequence homology: Cynomolgus, Bovin, Pig, Chicken
Conjugation:	Unconjugated
Clone:	6Y738
Purification:	Protein A

Applications

Verified Activity:	<ol style="list-style-type: none">1. Western blot analysis of extracts from serum-starved HeLa, untreated (-) or treated with IL4 (100 ng/mL, 15min; +), using Phospho-Stat6 (Tyr641) Antibody, Rabbit MAb at 1:10000 dilution (upper) or Anti-STAT6 Antibody, Rabbit PAb at 1:1000 dilution (lower).2. Western blot analysis of extracts from serum-starved HeLa, treated with IL4 (100 ng/mL, 15 min), using Phospho-Stat6 (Tyr641) Antibody, Rabbit MAb and other brands' antibodies (Company C) at dilution of 1:1000, 1:10000 and 1:200000.3. Western blot analysis of extracts from serum-starved HeLa, untreated (line A); treated with IL4 using Phospho-Stat6 (Tyr641) Antibody, Rabbit MAb at 1:10000 dilution. (Validation Experiment)4. Western blot analysis of extracts from serum-starved HeLa, untreated (line A); treated with IL4 or antigen-specific phosphopeptide (line C) or antigen-specific peptide (line D) using Phospho-Stat6 (Tyr641) Antibody, Rabbit MAb at 1:10000 dilution. (Validation Experiment)
Application:	WB
Recommended	WB: 1:2000-1:20000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: residues around Tyr641 of the Human Stat6
Antigen Species:	Human
Synonyms:	Stat6 (p-Y641);IL-4-STAT;D12S1644;p-Stat6 (Tyr641);STAT6C;STAT6B;Stat6 (p-Tyr641);p-Stat6 (Y641);Phospho-Stat6 (Y641);STAT-6;HIES6
Biology Area:	Apoptosis Transcription Factors and Regulators

Research Background

Signal transducer and activator of transcription 6 (STAT6) is a transcription factor that is activated by interleukin-4 (IL-4)-induced tyrosine phosphorylation and mediates most of the IL-4-induced gene expression. STAT6 plays a central role in exerting interleukin-4 (IL-4) mediated biological responses and is found to induce the expression of BCL2L1/BCL-XL, which is responsible for the anti-apoptotic activity of IL4. Transcriptional activation by STAT6

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requires the interaction with coactivators like p300 and the CREB-binding protein (CBP). NF- κ B and tyrosine-phosphorylated Stat6 can directly bind each other in vitro and in vivo, which suggests that the direct interaction between Stat6 and NF- κ B may provide a basis for synergistic activation of transcription by IL-4 and activators of NF- κ B.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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