

DESCRIPTION

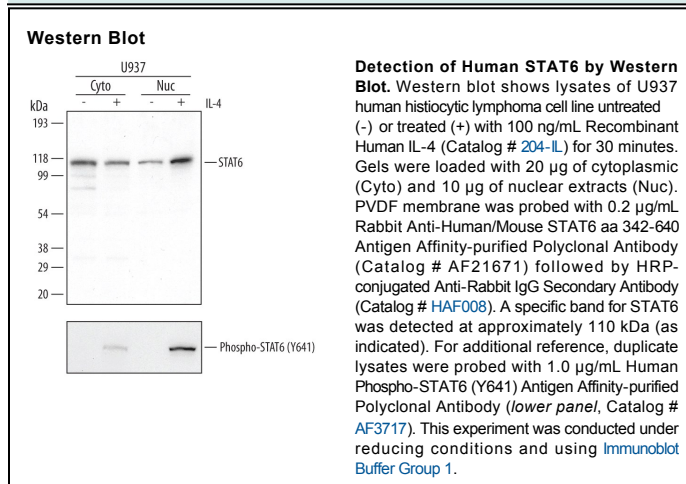
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse STAT6 in Western blots.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human STAT6 Asn342-Gly640 Accession # P42226
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS and Sodium Azide with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.2 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Signal Transducer and Activator of Transcription 6 (STAT6) is a member of the Jak/STAT signal transduction pathway and mediates cytokine signaling by IL-4. IL-4 activation leads to tyrosine phosphorylation and accumulation in the nucleus of STAT6 homo and heterodimers. STAT6 binds to the consensus DNA binding site TTCN₃GAA. STAT6 transcriptional activation occurs by binding p100 and p160 class (NcoA1, Src-1) co-activators. Gene expression studies indicate that STAT6 mediates cell proliferation and anti-apoptotic effects of IL-4. Also, knockout studies in mice suggest that STAT6 functions in T helper 2 (Th2) cell differentiation and transcriptional expression of cell surface markers and class switch of immunoglobulins.