

Direct-Blot™ HRP anti-STAT5 Antibody

Catalog# / Size	660203 / 100 µL
Clone	9C8B50
Regulatory Status	RUO
Other Names	Signal transducer and activator of transcription 5A
Isotype	Mouse IgG2a, κ
Description	STAT5 is a member of the signal transducer and activator of transcription factors (STAT) family, mediating growth and cytokine signaling. STAT5 consists of two closely related family members, STAT5A and STAT5B, which exhibit 96% sequence homology and are functionally redundant. Upon activation, STAT5 is phosphorylated by receptor tyrosine kinases and, in turn, forms homodimers or heterodimers with other family members through its SH2 domains. The dimerized STAT5 translocates to the nucleus and binds to the STAT5 response element (TTCXXGAA). STAT5 plays crucial regulatory roles in cell proliferation, anti-apoptosis, early B cell differentiation, and T cell development.

Product Details

Verified Reactivity	Human, Mouse
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Partial human STAT5A recombinant protein (627-794 a.a.) expressed in <i>E. coli</i> .
Formulation	This antibody is provided in 50% glycerol in aqueous buffered solutions with preservatives.
Preparation	The antibody was purified by affinity chromatography and conjugated with HRP under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	Upon receipt, the antibody solution should be stored undiluted at -20°C, and protected from prolonged exposure to light.
Application	WB - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . For Western blotting, the suggested dilution is 1:1000-1:4000. The optimal dilution should be determined by titration for each individual assay of interest. 25 µl and 100 µl of Direct-Blot™ HRP antibody can be used for approximately 5 and 20 Western blots, respectively, at the recommended concentration/dilution.
Application Notes	This clone is not recommended for ChIP (Chromatin Immunoprecipitation) assays (as determined by in-house testing).
RRID	AB_2616893 (BioLegend Cat. No. 660203)

Antigen Details

Structure	794 amino acids, predicted molecular weight of 91 kD; contains a SH2 domains responsible for homodimerization or heterodimerization.
Distribution	Cytoplasm; phosphorylated form translocates to the nucleus.
Function	STAT5 is a transcription regulator and is involved in cell differentiation, proliferation, and survival, in response to several cytokines, such as interleukins, erythropoietin, growth hormone,

thrombopoietin, and prolactin.

Interaction	Forms a homodimer or a heterodimer with other family members. Interacts with NCOA1, SOCS7, CBP, p300, SMRT and ERBB4.
Cell Type	B cells, Tregs
Biology Area	Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Cell Cycle/DNA Replication, Immunology, Signal Transduction, Transcription Factors
Molecular Family	Nuclear Markers
Antigen References	<ol style="list-style-type: none">1. Bell BD, <i>et al.</i> 2013. <i>Nat. Immunol.</i> 14:364.2. Cholez E, <i>et al.</i> 2012. <i>Leukemia.</i> 26:2390.3. Heltemes-Harris LM, <i>et al.</i> 2012. <i>Curr. Opin. Immunol.</i> 24:146.4. Heltemes-Harris LM, <i>et al.</i> 2011. <i>Ann. N Y Acad. Sci.</i> 1217:18.5. Malin S, <i>et al.</i> 2010. <i>Curr. Opin. Immunol.</i> 22:168.6. Xu J, <i>et al.</i> 2009. <i>J. Neurosci.</i> 29:2022.
Gene ID	6776

Related Protocols

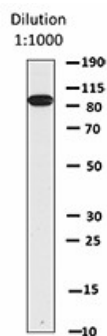
[Direct-Blot™ HRP Antibodies Save You Time - Video](#)

[Direct-Blot™ Western Blotting Protocol](#)

Other Formats

Purified anti-STAT5, Direct-Blot™ HRP anti-STAT5

Product Data



10 µg of total protein extract from Jurkat cells was resolved by electrophoresis, transferred to a nitrocellulose membrane, and probed with Direct-Blot™ HRP anti-STAT5 (clone 9C8B50) antibody. Proteins were visualized using chemiluminescence detection.

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