

STAT6 ABfinity™ Recombinant Rabbit Monoclonal Antibody – Purified

Publication Part no. MAN0005597

Rev. 1.0

Catalog Number: 701110

Store at 2 to 8°C (short-term), or –20°C (long-term)

Clonality: Monoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Rabbit IgG
Reactivity: Human STAT6
Predicted Reactivity: Human

Product Description

STAT6 (signal transducers and activators of transcription 6) has two isoforms (STAT6a and STAT6c), and belongs to the family of STAT (signal transducers and activators of transcription) proteins, which are phosphorylated by receptor associated kinases, translocate to the nucleus, and act as transcription activators in response to cytokines and growth factors. Activated STAT6 translocates to the nucleus and binds to a STAT6-responsive element on the human IL-4 promoter. STAT6 plays a crucial role in IL-4 mediated biological responses. In addition, STAT6 has also been demonstrated to be important for the functions mediated by IL-13, which is related to IL-4.

Product Specifications

Immunogen: Peptide corresponding to amino acids 630–638 of human signal transducer and activator of transcription 6

Alternate Names: IL-4-STAT

Apparent MW: ~110 kDa

Gene ID: 6778

Protein Accession No.: Q5FBW6

Sequence Identity: Human

Clone/PAD: 21HCLC

Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa cells	1–3 µg/mL
Immunocytochemistry	Human	HeLa cells	1–3 µg/mL
Indirect ELISA	Human	Peptide	1.5 × 10 ⁻⁴ to 3 µg/mL

Storage and Handling

Store the antibody at 2 to 8°C for up to 1 month, or –20°C for long storage. Avoid repeated freezing and thawing.

Stability

Expires one year from date of receipt when stored as instructed.

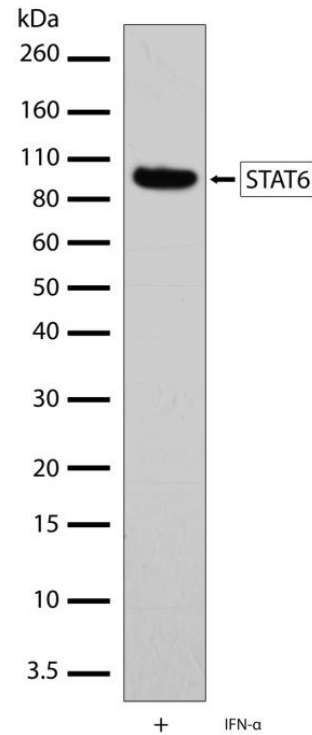


Figure 1 Western blot analysis of STAT6 ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701110). Western blot analysis was performed on whole cell extracts of serum starved HeLa cells treated with IFN-α (150 ng/mL for 15 minutes). Endogenous STAT6 at ~100 kDa was detected using STAT6 ABfinity™ Recombinant Rabbit Monoclonal Antibody at a concentration of 2 µg/mL. The blot was developed using chemiluminescence (ECL) method.

For research use only. Not for human or animal therapeutic or diagnostic use.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@invitrogen.com

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

Note: Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

Safety Data Sheets (SDS)

Safety Data Sheets (SDSs) are available at www.invitrogen.com/sds.

Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on our website. Go to www.invitrogen.com/support and search for the Certificate of Analysis by product lot number, which is printed on the box.

Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze™ Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze™ Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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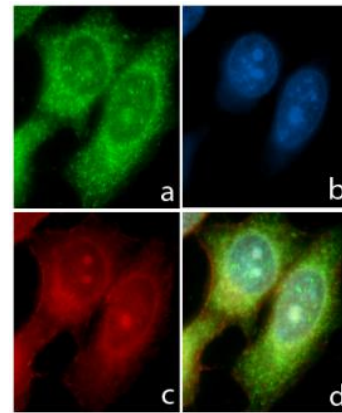


Figure 2 Immunocytochemistry analysis of STAT6 ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701110). Immunocytochemistry analysis of HeLa cells stained with STAT6 ABfinity™ Recombinant Rabbit Monoclonal Antibody using **a:** Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b:** DAPI was used to stain the nucleus (blue), and **c:** Alexa Fluor® 594 phalloidin was used to stain actin (red). **d:** Composite image of cells showing cytoplasmic localization of STAT6.

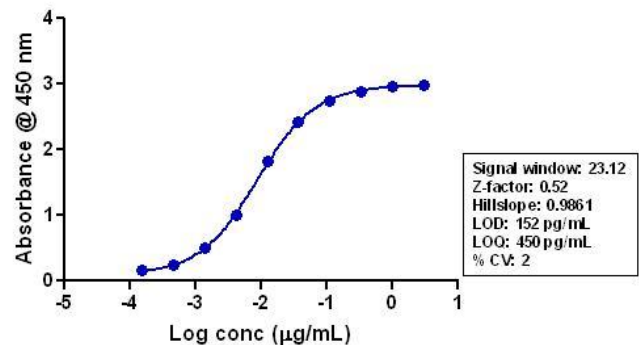


Figure 3 Indirect ELISA of STAT6 ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701110). Indirect ELISA was performed using various dilutions of STAT6 ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701110) to detect STAT6 peptide coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.