

## STAT2 ABfinity™ Recombinant Rabbit Monoclonal Antibody – Purified

Publication Part no. MAN0005596

Rev. 1.0

Catalog Number: 701105

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 STAT2  
**Predicted Reactivity:** Human

### Product Description

STAT2 (signal transducers and activators of transcription 2), 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. STAT2 along with STAT1 and IFN regulatory factor family of protein p48 (ISGF3G) are involved in activating the transcription of IFN stimulated genes leading the cell to fight against viral infection. In humans, the gene is located on the q arm of the chromosome 12. Splicing variants produce two isoforms for human STAT2.

### Product Specifications

**Immunogen:** Peptide corresponding to amino acids 186–197 of human signal transducer and activator of transcription 2

**Alternate Names:** p113

**Apparent MW:** ~113 kDa

**Gene ID:** 6773

**Protein Accession No.:** P52630

**Sequence Identity:** Human

**Clone/PAD:** 1H10L19

**Lot:** See product label

### Product Applications

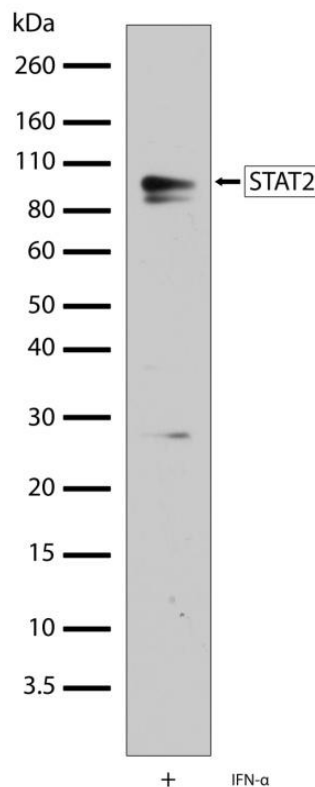
Application	Species	Test Material	Concentration
Western blotting	Human	HeLa cells	1–3 µg/mL
Indirect ELISA	Human	Peptide	1.5 x 10 <sup>-4</sup> to 3 µg/mL

### 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 STAT2 ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701105). Western blot analysis was performed on whole cell extracts of serum starved HeLa cells treated with IFN-α (150 ng/mL for 15 minute). Endogenous STAT2 at ~98 kDa was detected using STAT2 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.**

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## 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)

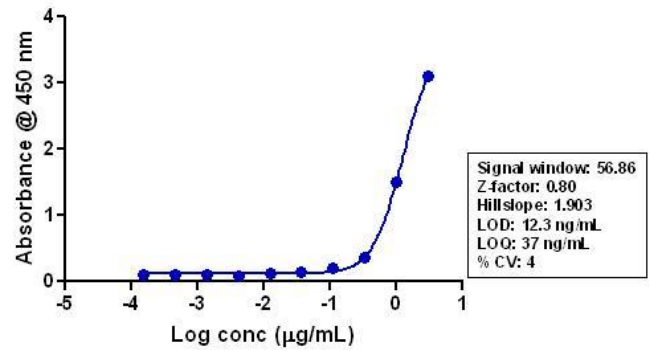
Safety Data Sheets (SDSs) are available at [www.invitrogen.com/sds](http://www.invitrogen.com/sds).

## 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](http://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



**Figure 2** Indirect ELISA of STAT2 ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701105). Indirect ELISA was performed using various dilutions of STAT2 ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701105) to detect STAT2 peptide coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

### Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		<i>In vitro</i> 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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