

STAT3 (Hu) Rabbit Recombinant Oligoclonal Antibody – Purified

MAN0004402

Rev. Date: 21 May 2011

Catalog Number: 710077

Store at 2–8°C

Clonality:	Oligoclonal	Host/Class:	Rabbit IgG
Concentration:	0.5 mg/mL	Reactivity:	Human STAT3
Quantity:	100 µg	Predicted Reactivity:	Human
Volume:	200 µL		

Product Description

STAT3 (also known as signal transducers and activators of transcription) is a member of the STAT family of transcription factors. STAT proteins undergo phosphorylation in response to cytokines and growth factors and are translocated to the nucleus. STAT3 can be activated by interferon-alpha, interferon-gamma, EGF, PDGF and IL6. Coactivators such as CREB-binding protein are required for transcriptional activation by STAT3. In humans, the STAT3 gene is located on the q arm of chromosome 17.

Product Specifications

Immunogen:	Recombinant protein corresponding to amino acids 1–220 of human STAT3
Alternate Names:	APRF
Apparent MW:	~84 kDa
Gene ID:	6774
Protein Accession No.:	P40763
Sequence Identity:	Human
Sequence Homology:	Mouse
Clone/PAD:	3HCLC
Lot:	See product label

Product Applications

Application	Species	Test Material	Concentration
Western Blotting	Human	HeLa cells + IFN1α (150 ng/mL for 15 min)	2–5 µg/mL
ELISA	Human	HeLa cells + IFN1α (150 ng/mL for 15 min)	5.0x10 ⁻⁴ to 10 µg/mL

Storage and Handling

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

Stability

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

Storage Buffer

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

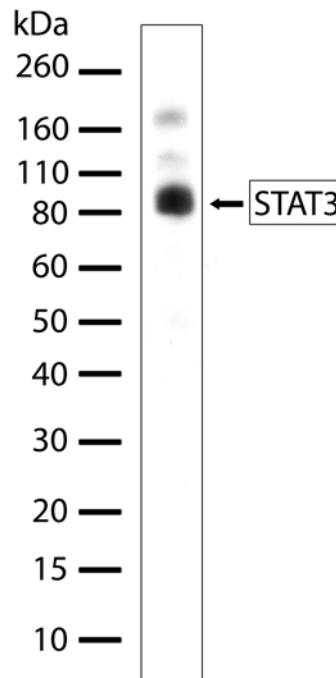


Figure 1 Western Blot analysis of STAT3 (Hu) Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710077). Whole cell extract (80 µg) from HeLa cells treated with IFN1α (150 ng/mL for 15 min) was run on SDS-PAGE, and transferred onto nitrocellulose. The blot was blocked, and incubated with STAT3 (Hu) Rabbit Recombinant Oligoclonal Antibody at 5 µg/mL, overnight at 4°C. HRP conjugated Goat Anti-Rabbit secondary antibody was used at a 1:5000 dilution, and the blot was developed by chemiluminescence (ECL). A band corresponding to STAT3 at ~84 kDa was detected.

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

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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

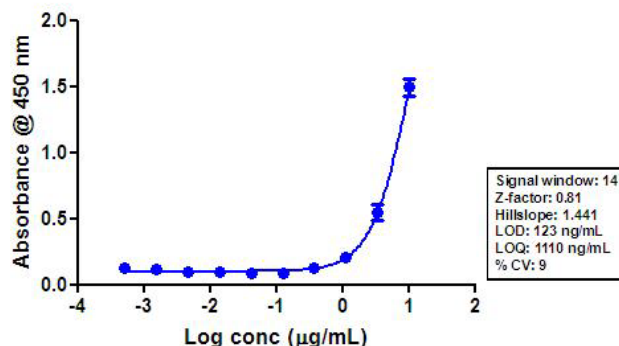


Figure 2 Indirect ELISA of STAT3 (Hu) Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710077). Indirect ELISA was performed using STAT3 (Hu) Rabbit Recombinant Oligoclonal Antibody to detect endogenous STAT3 protein in HeLa cells treated with IFN1α (150 ng/mL for 15 min) whole cell lysate (1 µg/well). HRP conjugated Goat Anti-Rabbit secondary antibody was used at a 1:5000 dilution, and developed using TMB (Cat. no. SB01) as substrate.

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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