

STAT1 (Hu) Rabbit Recombinant Oligoclonal Antibody – Purified

MAN0004403

Rev. Date: 21 May 2011

Catalog Number: 710078

Store at 2–8°C

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

Host/Class: Rabbit IgG
Reactivity: Human STAT1
Predicted Reactivity: Human

Product Description

STAT1 (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. STAT1 can be activated by interferon-alpha, interferon-gamma, EGF, PDGF and IL6. The protein is known to regulate several genes which are involved in cell growth, apoptosis, immune responses, and lipid metabolism. The STAT1 gene is located on chromosome 2.

Product Specifications

Immunogen: Recombinant protein corresponding to amino acids 134–218 of human STAT1
Alternate Names: ISGF-3, STAT91
Apparent MW: ~84 kDa
Gene ID: 6772
Protein Accession No.: P42224
Sequence Identity: Human
Clone/PAD: 4HCLC
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.

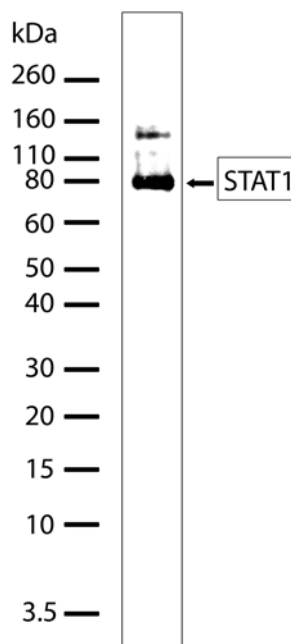


Figure 1 Western Blot analysis of STAT1 (Hu) Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710078). Whole cell extract (40 µg) from HeLa cells treated with IFN1α (150 ng/mL for 15 min) was run on SDS-PAGE, and transferred onto nitrocellulose. The blot was blocked, and incubated with STAT1 (Hu) Rabbit 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 STAT1 at ~84 kDa was detected.

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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

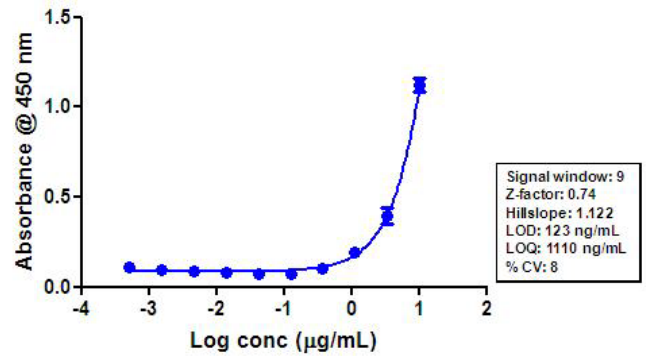


Figure 2 Indirect ELISA of STAT1 (Hu) Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710078). Indirect ELISA was performed using STAT1 (Hu) Rabbit Recombinant Oligoclonal Antibody to detect endogenous STAT1 protein in HeLa cells treated with IFN1 α (150 ng/mL for 15 min) whole cell lysate (1 µg/well). 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
[REF]	Catalogue Number	[LOT]	Batch code
[RUO]	Research Use Only	[IVD]	<i>In vitro</i> diagnostic medical device
[Hourglass]	Use by	[Thermometer]	Temperature limitation
[Factory]	Manufacturer	[EC REP]	European Community authorised representative
[-]	Without, does not contain	[+]	With, contains
[Light Protection]	Protect from light	[Warning]	Consult accompanying documents
[i]	Directs the user to consult instructions for use (IFU), accompanying the product.		

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