

STAT3 [pY705] Rabbit Recombinant Oligoclonal Antibody – Purified

MAN0004615

Rev. Date: 21 June 2011

Catalog Number: 710093

Store at 2–8°C

Clonality: Oligoclonal
Concentration: 0.5 mg/mL

Host/Class: Rabbit IgG
Reactivity: Human Signal transducer and activator of transcription 3

Quantity: 100 µg
Volume: 200 µL

Predicted Reactivity: Human

Product Description

STAT3 belongs to the family of STAT proteins also known as signal transducers and activators of transcription. STAT proteins undergo phosphorylation by the receptor associated kinases in response to cytokines and growth factors and are translocated to the nucleus to act as transcription factors. Coactivators such as CREB-binding protein is required for the transcriptional activation by STAT3. Phosphorylation on tyrosine 705 by JAK1 and JAK2 is essential for STAT3 dimer formation, nuclear translocation and DNA binding activity. In humans, STAT3 gene is located on the q arm of chromosome 17.

Product Specifications

Immunogen: Peptide corresponding to amino acids 698–709 of human STAT3

Alternate Names: APRF

Apparent MW: ~90 kDa

Gene ID: 6774

Protein Accession No.: P40763

Sequence Identity: Human

Sequence Homology: Mouse, Rat, Monkey

Clone/PAD: 3HCLC

Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa cells	2–5 µg/mL

Storage and Handling

Store the antibody at 2–8°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.

Storage Buffer

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

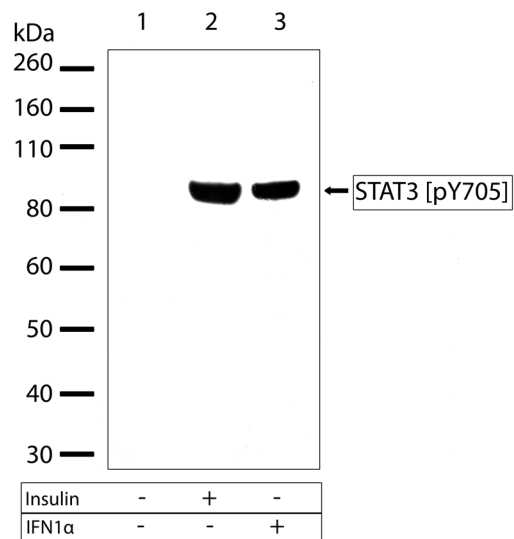


Figure 1 Western Blot analysis of STAT3 [pY705] Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710093). Western blot analysis was performed on whole cell extracts of HeLa with 100 ng/mL insulin for 15 min (lane1), without insulin treatment (lane 2), and with 150 ng/mL IFN1α for 15 min treatent (lane 3). A band corresponding to phosphorylated STAT3 at ~90 kDa was detected with STAT3 [pY705] Rabbit Recombinant Oligoclonal Antibody at 2.5 µg/mL.

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

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		<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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