

For Research Use Only

STAT3 Recombinant antibody

Catalog Number: 80149-1-RR

Featured Product

3 Publications



Basic Information

Catalog Number:

80149-1-RR

Size:

100ul, Concentration: 400 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC000627

GeneID (NCBI):

6774

UNIPROT ID:

P40763

Full Name:

signal transducer and activator of transcription 3 (acute-phase response factor)

Calculated MW:

770 aa, 88 kDa

Observed MW:

88 kDa

Purification Method:

Protein A purification

CloneNo.:

3H1

Recommended Dilutions:

WB: 1:1000-1:8000

IHC: 1:400-1:1600

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : PC-12 cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, NIH/3T3 cells, Neuro-2a cells

IHC : human breast cancer tissue,

Background Information

Signal transducer and activator of transcription 3 (acute-phase response factor) (STAT3, synonyms: APRF, FLJ20882, MGC16063) is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. STAT3 is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. STAT3 mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of STAT3.

Notable Publications

Author	Pubmed ID	Journal	Application
Fujie Jia	40081725	Int J Biol Macromol	WB
Ting Li	39575303	MedComm (2020)	WB
Xiaoning Wei	37952482	Int Immunopharmacol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

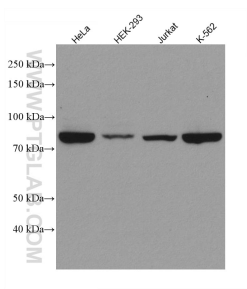
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

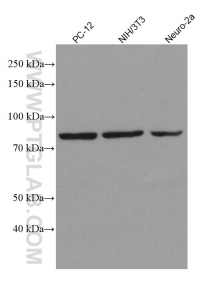
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

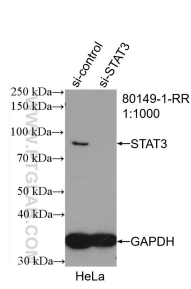
Selected Validation Data



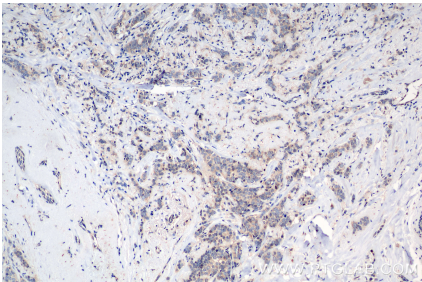
Various lysates were subjected to SDS PAGE followed by western blot with 80149-1-RR (STAT3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



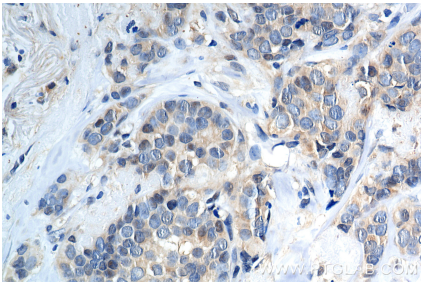
Various lysates were subjected to SDS PAGE followed by western blot with 80149-1-RR (STAT3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



WB result of STAT3 antibody (80149-1-RR; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-STAT3 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 80149-1-RR (STAT3 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 80149-1-RR (STAT3 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).