

# STAT3 Recombinant antibody

Catalog Number: 80149-1-RR

## Basic Information

**Catalog Number:**

80149-1-RR

**Size:**

400 µg/ml

**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

## Applications

**Tested Applications:**

WB, ELISA

**Species Specificity:**

Human, Mouse

**Positive Controls:**

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

## 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.

## Storage

**Storage:**

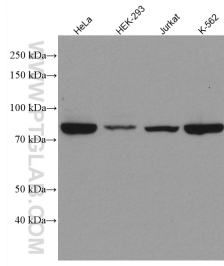
Store at -20°C.

**Storage Buffer:**

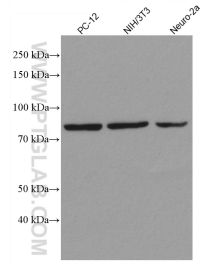
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

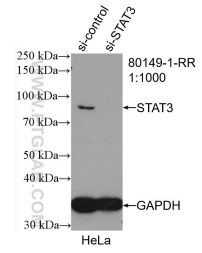
## Selected Validation Data



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.



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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.