

## Anti-STAT3 Antibody

Catalog Number: A00007-1

### About STAT3

STATs (signal transducers and activators of transcription) are a family of cytoplasmic latent transcription factors that are activated to regulate gene expression in response to a large number of extracellular signaling polypeptides including cytokines, interferons, and growth factors. After phosphorylation by JAK tyrosine kinases, STATs enter the nucleus to regulate transcription of many different genes. Among the seven STATs (STAT1, STAT2, STAT3, STAT4, STAT5a, STAT5b, and STAT6), STAT1, STAT3, STAT5a, and STAT5b have a wide activation profile. STAT3 signals are pivotal to the proliferation and differentiation of neural stem cells and also participate in neuronal regeneration and cancers of the nervous system.

### Overview

Product Name	Anti-STAT3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-STAT3 Antibody (Catalog # A00007-1). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal Clone: SK7
Formulation	STAT3 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	STAT3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Host	Rabbit
Uniprot ID	P40763

### Technical Details

Immunogen	Rabbit polyclonal STAT3 antibody was raised against a 19amino acid peptide near the amino terminus of human STAT3. The immunogen is located within amino acids 170 - 220 of STAT3.
Predicted Reactive Species	Bovine, Chicken, Pig
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	STAT3 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

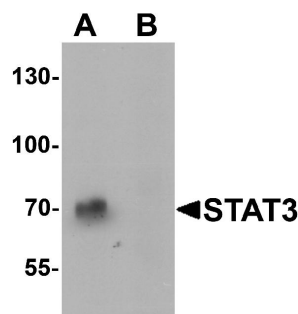
Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

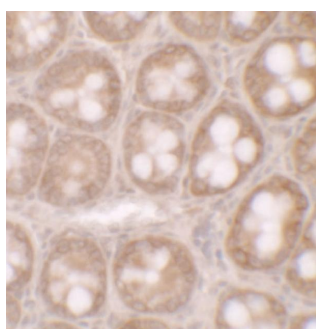
STAT3 antibody can be used for detection of STAT3 by Western blot at 1 - 2 ug/mL.

Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

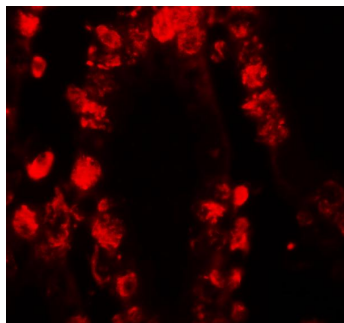
## Anti-STAT3 Antibody (A00007-1) Images



Western blot analysis of STAT3 in human small intestine tissue lysate with STAT3 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of STAT3 in human small intestine tissue with STAT3 antibody at 5 ug/ml.



Immunofluorescence of STAT3 in human small intestine tissue with STAT3 antibody at 20 ug/ml.

## 1 Publications Citing This Product

1. PubMed ID: 33542641, Zhang Q,Duan HX,Li RL,Sun JY,Liu J,Peng W,Wu CJ,Gao YX. Inducing Apoptosis and Suppressing Inflammatory Reactions in Synovial Fibroblasts are Two Important Ways for Guizhi-Shaoyao-Zhimu Decoction Against Rheumatoid Arthritis. J Inflamm Res.2021 Jan 26;14:

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