

Anti-STAT3 Antibody

Catalog Number: A00007-2

About STAT3

Anti-Glycogen Synthase 1 pS641 antibody is validated by IHC, Western Blot and ELISA. Human muscle glycogen synthase (GS) is responsible for the biosynthesis of glycogen from phosphorylated glucose units. Mammalian liver and muscle contain GS consisting of four subunits with a total molecular weight of 360,000. GS is subject to regulation through both allosteric and covalent modification and occurs in two forms: the phosphorylated inactive form, and the dephosphorylated active form. GS is inactivated by the serine/threonine kinase called glycogen synthase kinase-3 β that mainly functions to phosphorylate muscle glycogen synthase. This antibody is specific for the phosphorylated form of GS at S641. Phosphorylation of GS at S641 has been associated with Antiphospholipid Antibody Syndrome.

Overview

Product Name	Anti-STAT3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-STAT3 Antibody catalog # A00007-2. Tested in WB, ICC/IF, IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, ICC, WB
Clonality	Polyclonal PI9-17
Formulation	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P40763

Technical Details

Immunogen	Synthesized peptide derived from human PTEN around the phosphorylation site of S385.
Predicted Reactive Species	Bovine, Chicken
Cross Reactivity	Weakly cross-reacts with dog p53.
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	ProA affinity purified

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:

WB: 1:1,000-1:2,000

ICC: 1:100-1:500

IHC: 1:50-1:200

Anti-STAT3 Antibody (A00007-2) Images

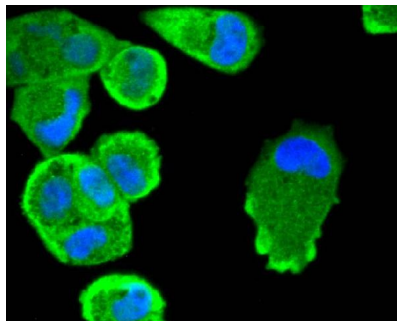


Figure 2. Immunocytochemistry staining of STAT3 using Anti-STAT3 Antibody (A00007-2).

ICC staining STAT3 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde

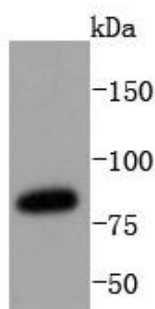


Figure 1. Western blotting validation for Anti-STAT3 Antibody A00007-2

Western blot analysis of STAT3 on MCF-7 cells lysates using anti-STAT3 antibody at 1/1

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