

# STAT3 Antibody (7G3H4)

Lot Number: RJ2278953

Product Data Sheet

## Tested Species Reactivity

Human (Hu)

## Tested Applications

Western Blot (WB)	1/500 - 1/2000
Immunohistochemistry (IHC)	1/200 - 1/1000

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

## Details

<b>Catalog Number:</b>	MA5-15473
<b>Size:</b>	100 µL
<b>Class:</b>	Monoclonal
<b>Type:</b>	Antibody
<b>Clone:</b>	7G3H4
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Immunogen:</b>	Purified recombinant fragment of STAT3 expressed in E. Coli.

## Form Information

<b>Form:</b>	Liquid
<b>Storage Buffer:</b>	ascites
<b>Preservative:</b>	0.03% sodium azide
<b>Storage Conditions:</b>	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

## Product Specific Information

MA5-15473 targets STAT3 in IHC and WB applications and shows reactivity with Human samples.

The MA5-15473 immunogen is purified recombinant fragment of STAT3 expressed in E. Coli.

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## General Information

The protein encoded by this gene 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. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein 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 this protein. PIAS3 protein is a specific inhibitor of this protein. Three alternatively spliced transcript variants encoding distinct isoforms have been described.

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