

Stat3 Monoclonal Antibody

Description

Product type	Primary Antibody
Code	BT-MCA1163
Host	Mouse
Isotype	IgG
Size	50ul, 100ul
Immunogen	Purified recombinant fragment of human Stat3 expressed in E. Coli.
Mol wt	N/A
Species reactivity	Human, Mouse, Monkey
Clonality	Monoclonal
Recommended application	WB, IHC-p, IF, ICC, ELISA
Concentration	1 mg/ml
Full name	Signal transducer and activator of transcription 3
Synonyms	STAT3; APRF; Signal transducer and activator of transcription 3; Acute-phase response factor

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

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. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper

Recommended Dilution

ELISA: 1:10000

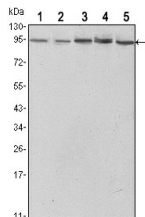
IF: 1:200 - 1:1000

IHC: 1:200 - 1:1000

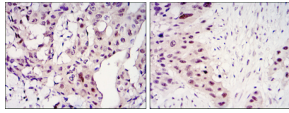
WB: 1:500 - 1:2000

Not yet tested in other applications.

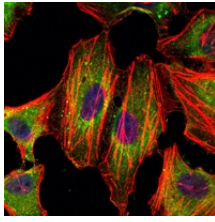
Images



Western Blot analysis using Stat3 Monoclonal antibody against HeLa (1)NIH/3T3 (2)Jurkat (3)PC-12 (4) and COS7 (5) cell lysate.



Immunohistochemistry analysis of paraffin-embedded mammary cancer tissues (left) and lung cancer tissues (right) with DAB staining using Stat3 Monoclonal antibody.



Immunofluorescence analysis of Hela cells using Stat3 Monoclonal antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Storage

-20°C for one year

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