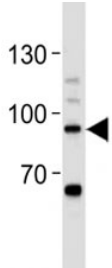
STAT-3 Antibody (F46167)

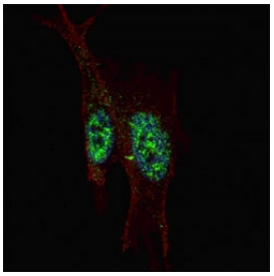
Catalog No.	Formulation	Size
F46167-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F46167-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P40763
Applications	Western Blot : 1:1000 Immunofluorescence : 1:200
Limitations	This STAT-3 antibody is available for research use only.



STAT-3 antibody western blot analysis in Daudi lysate. Predicted/observed molecular weight ~88kDa.



Fluorescent confocal image of SY5Y cells stained with STAT-3 antibody at 1:200. Note the highly specific localization of the STAT3 mainly to the nucleus.

Description

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.

Application Notes

Titration of the STAT-3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 711-743 from the human protein was used as the immunogen for this STAT-3 antibody.

Storage

Aliquot the STAT-3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.