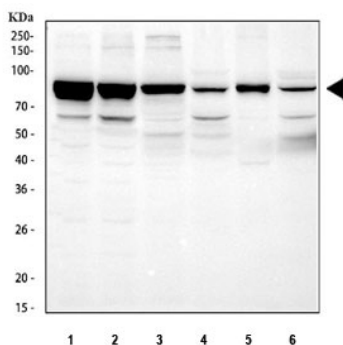


STAT3 Antibody (R32089)

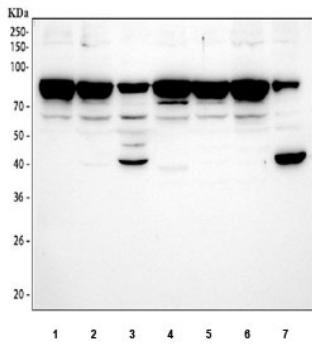
Catalog No.	Formulation	Size
R32089	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

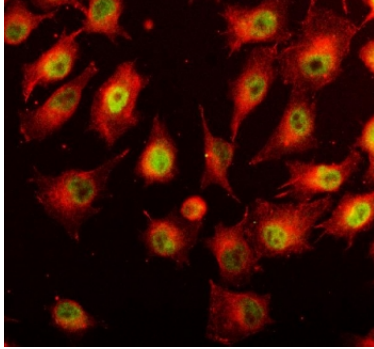
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P40763
Localization	Cytoplasmic, nuclear
Applications	Western blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Immunoprecipitation : 2ug antibody/500ug lysate Flow cytometry : 1-3ug/million cells
Limitations	This STAT3 antibody is available for research use only.



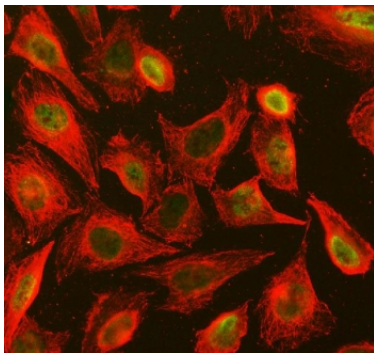
Western blot testing of 1) human HEL, 2) human A549, 3) rat lung, 4) rat heart, 5) mouse lung and 6) mouse heart tissue lysate with STAT3 antibody. Expected molecular weight: ~92 kDa (alpha) and ~83 kDa (beta).



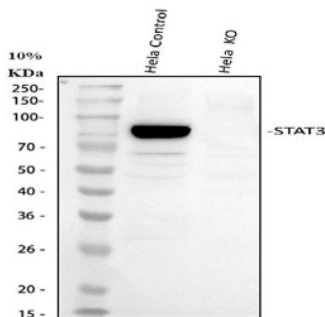
Western blot testing of human 1) HEL, 2) A549, 3) HaCaT, 4) U-251, 5) K562, 6) SiHa and 7) RT4 cell lysate with STAT3 antibody. Expected molecular weight: ~92 kDa (alpha) and ~83 kDa (beta).



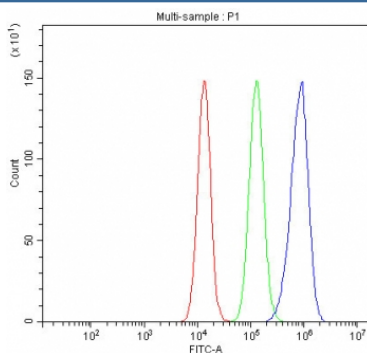
Immunofluorescent staining of FFPE human A549 cells with STAT3 antibody (green) and Beta Tubulin mAb (red). HIER: steam section in pH6 citrate buffer for 20 min.



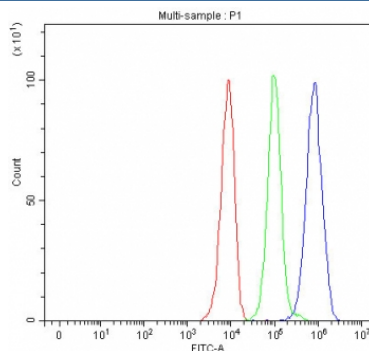
Immunofluorescent staining of FFPE human U-2 OS cells with STAT3 antibody (green) and Beta Tubulin mAb (red). HIER: steam section in pH6 citrate buffer for 20 min.



Immunoprecipitation of STAT3 protein from 500ug of human HeLa whole cell lysate with 2ug of STAT3 antibody.



Flow cytometry testing of fixed and permeabilized human SiHa cells with STAT3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=STAT3 antibody.



Flow cytometry testing of fixed and permeabilized rat PC-12 cells with STAT3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= STAT3 antibody.

Description

The transcription factor, signal transducer and activator of transcription-3 (STAT-3) is the most pleiotropic member of the signal transducer and activator of transcription (STAT) family of transcription factors and mediates pivotal responses for the cytokine family. The mouse STAT3 gene contains 24 exons and spans 30 kb. The translation initiation codon is in exon 2, and the stop codon is in exon 24. STAT3 is mapped to 17q21. It contributes to various physiological processes. Hepatic STAT-3 signaling is thus essential for normal glucose homeostasis and may provide new therapeutic targets for diabetes mellitus.

Application Notes

Optimal dilution of the STAT3 antibody should be determined by the researcher.

Immunogen

Amino acids EKQQMLEQLQDVRKRVQDLEQKMKVVEN of human STAT3 were used as the immunogen for the STAT3 antibody.

Storage

After reconstitution, the STAT3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.