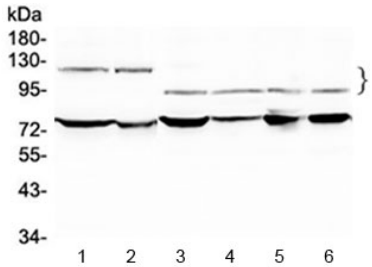
NFATC4 Antibody (R32926)

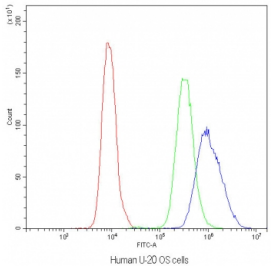
Catalog No.	Formulation	Size
R32926	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

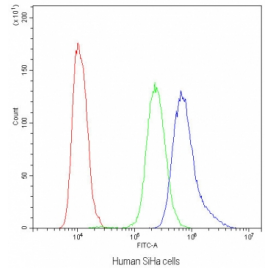
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	Q14934
Localization	Nuclear, cytoplasmic
Applications	Western Blot: 0.5-1ug/ml FACS: 1-3ug/million cells Direct ELISA (recombinant human protein): 0.1-0.5ug/ml (BSA-free format available)
Limitations	This NFATC4 antibody is available for research use only.



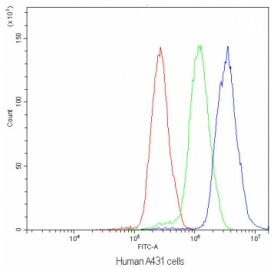
Western blot testing of 1) rat testis, 2) mouse testis, 3) human HeLa, 4) human A549 and 6) human SK-OV-3 lysate with NFATC4 antibody at 0.5ug/ml. Predicted molecular weight ~95 kDa, also can be observed at 120-140 kDa.



Flow cytometry testing of human U-2 OS cells with NFATC4 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=NFATC4 antibody.



Flow cytometry testing of human SiHa cells with NFATC4 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=NFATC4 antibody.



Flow cytometry testing of human A431 cells with NFATC4 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=NFATC4 antibody.

Description

Nuclear factor of activated T-cells, cytoplasmic 4 is a protein that in humans is encoded by the NFATC4 gene. This gene encodes a member of the nuclear factor of activated T cells (NFAT) protein family. The encoded protein is part of a DNA-binding transcription complex. This complex consists of at least two components: a preexisting cytosolic component that translocates to the nucleus upon T cell receptor stimulation and an inducible nuclear component. NFAT proteins are activated by the calmodulin-dependent phosphatase, calcineurin. The encoded protein plays a role in the inducible expression of cytokine genes in T cells, especially in the induction of interleukin-2 and interleukin-4.

Application Notes

Optimal dilution of the NFATC4 antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids Q413-D522 was used as the immunogen for the NFATC4 antibody.

Storage

After reconstitution, the NFATC4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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