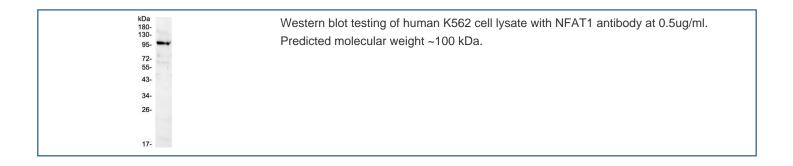


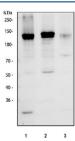
NFAT1 Antibody / NFATC2 (R32875)

Catalog No.	Formulation	Size
R32875	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

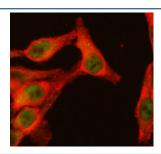
Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q13469
Localization	Nuclear, Cytoplasmic
Applications	Western Blot: 0.5-1ug/ml Immunofluorescence: 5ug/ml Flow Cytometry: 1-3ug/million cells Direct ELISA (Recombinant Human Protein): 0.1-0.5ug/ml (BSA-free format available)
Limitations	This NFAT1 antibody is available for research use only.

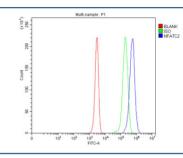




Western blot testing of human 1) Ramos, 2) Jurkat and 3) MOLT4 cell lysate with NFAT1 antibody at 0.5ug/ml. Predicted molecular weight ~100 kDa.



Immunofluorescent staining of FFPE human HeLa cells with NFAT1 antibody (green) and Alpha Tubulin mAb (red). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of fixed and permeabilized human Jurkat cells with NFAT1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= NFAT1 antibody.

Description

NFATC2 (Nuclear factor of activated T-cells, cytoplasmic 2), also known as NFATP or the 'preexisting component' of NFAT, is present in the cytosolic fraction of unstimulated T cells, which is also a member of the nuclear factor of activated T cells (NFAT) family. The NFATC2 gene is mapped on 20q13.2. NFATC2 is highly homologous to NFATC1 over a limited domain which shows similarity to the Dorsal/Rel family but has a wider tissue distribution. Ectopic expression of NFATC2 inhibited the basal activity of the human CDK4 promoter. Additionally, both Calna-/- and Nfatc2 -/- mice had elevated protein levels of Cdk4, confirming a negative regulatory role for the calcineurin/NFAT pathway. NFATC2 controls myoblast fusion at a specific stage of myogenesis after the initial formation of a myotube and is necessary for further cell growth. Overexpression of NFATC2 promoted differentiation of osteoclast precursor cells into tartrate-resistant acid phosphatase-positive (TRAP-positive) multinucleated osteoclast-like cells even in the absence of RANKL.

Application Notes

Optimal dilution of the NFAT1 antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids Q594-H676 was used as the immunogen for the NFAT1 antibody.

Storage

After reconstitution, the NFAT1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.