



Rabbit Anti-phospho-NFATc2 (Ser326) antibody

SL2669R

Product Name:	phospho-NFATc2 (Ser326)
Chinese Name:	磷酸化核因子活化T细胞胞浆蛋白2抗体
Alias:	AI607462; KIAA0611; NF ATp; NF-ATc2; NFAT 1; NFAT pre existing subunit; NFAT transcription complex, preexisting component; NFAT1; NFAT1-D; NFATc2; NFATp; Nuclear factor of activated T cells cytoplasmic 2; Nuclear factor of activated T cells cytoplasmic calcineurin dependent 2; Nuclear factor of activated T cells pre-existing component; T cell transcription factor NFAT; NF2IP_HUMAN; Nuclear factor of activated T-cells, cytoplasmic 2; NFAT pre-existing subunit; NF-ATp; T-cell transcription factor NFAT1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000Flow-Cyt=1ug/test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	102kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human NFATc2 around the phosphorylation site of Ser326:KT(p-S)PD
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

This gene is a member of the nuclear factor of activated T cells (NFAT) family. The product of this gene is a DNA-binding protein with a REL-homology region (RHR) and an NFAT-homology region (NHR). This protein is present in the cytosol and only translocates to the nucleus upon T cell receptor (TCR) stimulation, where it becomes a member of the nuclear factors of activated T cells transcription complex. This complex plays a central role in inducing gene transcription during the immune response. Alternate transcriptional splice variants encoding different isoforms have been characterized. [provided by RefSeq, Apr 2012]

Function:

Plays a role in the inducible expression of cytokine genes in T-cells, especially in the induction of the IL-2, IL-3, IL-4, TNF-alpha or GM-CSF. Promotes invasive migration through the activation of GPC6 expression and WNT5A signaling pathway.

Subunit:

Member of the multicomponent NFATC transcription complex that consists of at least two components, a pre-existing cytoplasmic component NFATC2 and an inducible nuclear component NFATC1. Other members such as NFATC4, NFATC3 or members of the activating protein-1 family, MAF, GATA4 and Cbp/p300 can also bind the complex. The phosphorylated form specifically interacts with XPO1; which mediates nuclear export. NFATC proteins bind to DNA as monomers. Interacts with NFATC2IP.

Subcellular Location:

Cytoplasm. Nucleus. Note=Cytoplasmic for the phosphorylated form and nuclear after activation that is controlled by calcineurin-mediated dephosphorylation. Rapid nuclear exit of NFATC is thought to be one mechanism by which cells distinguish between sustained and transient calcium signals. The subcellular localization of NFATC plays a key role in the regulation of gene transcription.

Tissue Specificity:

Expressed in thymus, spleen, heart, testis, brain, placenta, muscle and pancreas.

Post-translational modifications:

In resting cells, phosphorylated by NFATC-kinase on at least 18 sites in the 99-365 region. Upon cell stimulation, all these sites except Ser-245 are dephosphorylated by calcineurin. Dephosphorylation induces a conformational change that simultaneously exposes an NLS and masks an NES, which results in nuclear localization. Simultaneously, one site among Ser-53; Ser-54 and Ser-56 is phosphorylated; which is required for full transcriptional activity.

Similarity:

Contains 1 RHD (Rel-like) domain

SWISS:

Q13469

Product Detail:

Gene ID:
4773

Database links:

[Entrez Gene: 4773](#) Human

[Entrez Gene: 18019](#) Mouse

[Entrez Gene: 311658](#) Rat

[Omim: 600490](#) Human

[SwissProt: Q13469](#) Human

[SwissProt: Q60591](#) Mouse

[Unigene: 713650](#) Human

[Unigene: 744148](#) Human

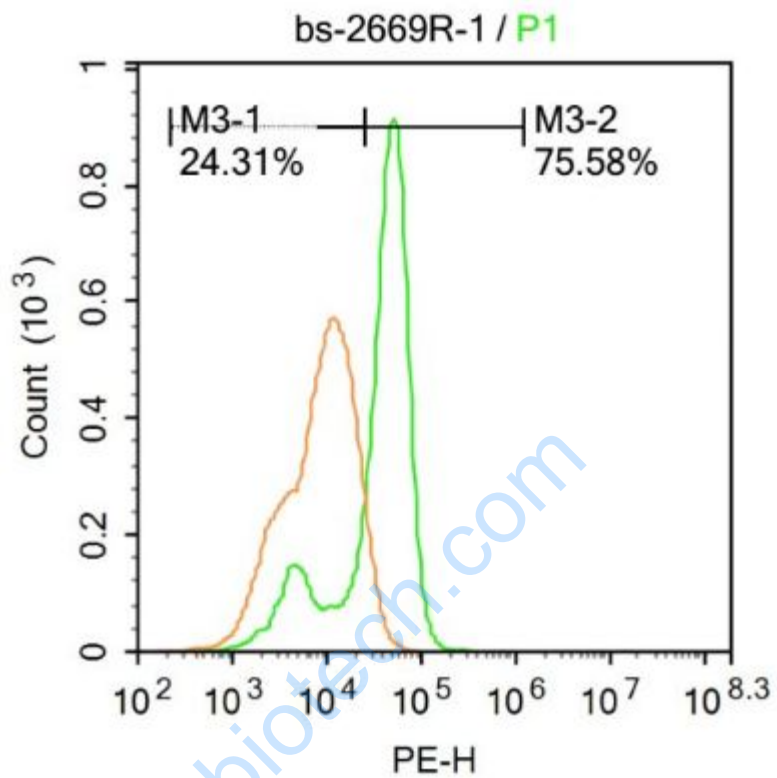
[Unigene: 116802](#) Mouse

[Unigene: 33679](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Picture:

U-937 cells were fixed with 4% PFA for 10min at room temperature, permeabilized with 90% ice-cold methanol for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with phospho-NFATc2(Ser326) Antibody(SL2669R) at 1:100 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).