



## Rabbit Anti-phospho-NFAT2 (Ser233) antibody

SL19785R

<b>Product Name:</b>	phospho-NFAT2 (Ser233)
<b>Chinese Name:</b>	磷酸化活化TThe nucleus因子1蛋白抗体
<b>Alias:</b>	NFAT2 (phospho S233); p-NFAT2 (phospho S233); p-NFAT2 (Ser235 mouse) ; NFAT2; MGC138448; NF ATc; NF ATc1; NFAT 2; NFATc1; NFAT transcription complex cytosolic component; NFATC 1; NFATc; NFATc1; Nuclear factor of activated T cells cytoplasmic 1; Nuclear factor of activated T cells cytoplasmic calcineurin dependent 1; Nuclear factor of activated T cells cytosolic component 1; NFAC1 HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	101kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthesised phosphopeptide derived from human NFAT2 around the phosphorylation site of Ser233:LG(p-S)SP
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>

The protein encoded by this gene is a member of the RecQ DNA helicase family. DNA helicases are enzymes involved in various types of DNA repair, including mismatch repair, nucleotide excision repair and direct repair. Some members of this family are associated with genetic disorders with predisposition to malignancy and chromosomal instability. The biological function of this helicase has not yet been determined. Two alternatively spliced transcripts, which encode the same isoform but differ in their 5' and 3' UTRs, have been described. [provided by RefSeq, Jul 2008]

**Function:**

Plays a role in the inducible expression of cytokine genes in T-cells, especially in the induction of the IL-2 or IL-4 gene transcription. Also controls gene expression in embryonic cardiac cells. Could regulate not only the activation and proliferation but also the differentiation and programmed death of T-lymphocytes as well as lymphoid and non-lymphoid cells.

**Subcellular Location:**

Cytoplasm. Nucleus. 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, peripheral leukocytes as T-cells and spleen. Isoforms A are preferentially expressed in effector T-cells (thymus and peripheral leukocytes) whereas isoforms B and isoforms C are preferentially expressed in naive T-cells (spleen). Isoforms B are expressed in naive T-cells after first antigen exposure and isoforms A are expressed in effector T-cells after second antigen exposure.

**Post-translational modifications:**

Phosphorylated by NFATC-kinase; dephosphorylated by calcineurin.

**Similarity:**

Contains 1 RHD (Rel-like) domain.

**SWISS:**

O95644

**Gene ID:**

4772

**Database links:**

[Entrez Gene: 4772](#) Human

[Omim: 600489](#) Human

**Product Detail:**

[SwissProt: O95644](#) Human

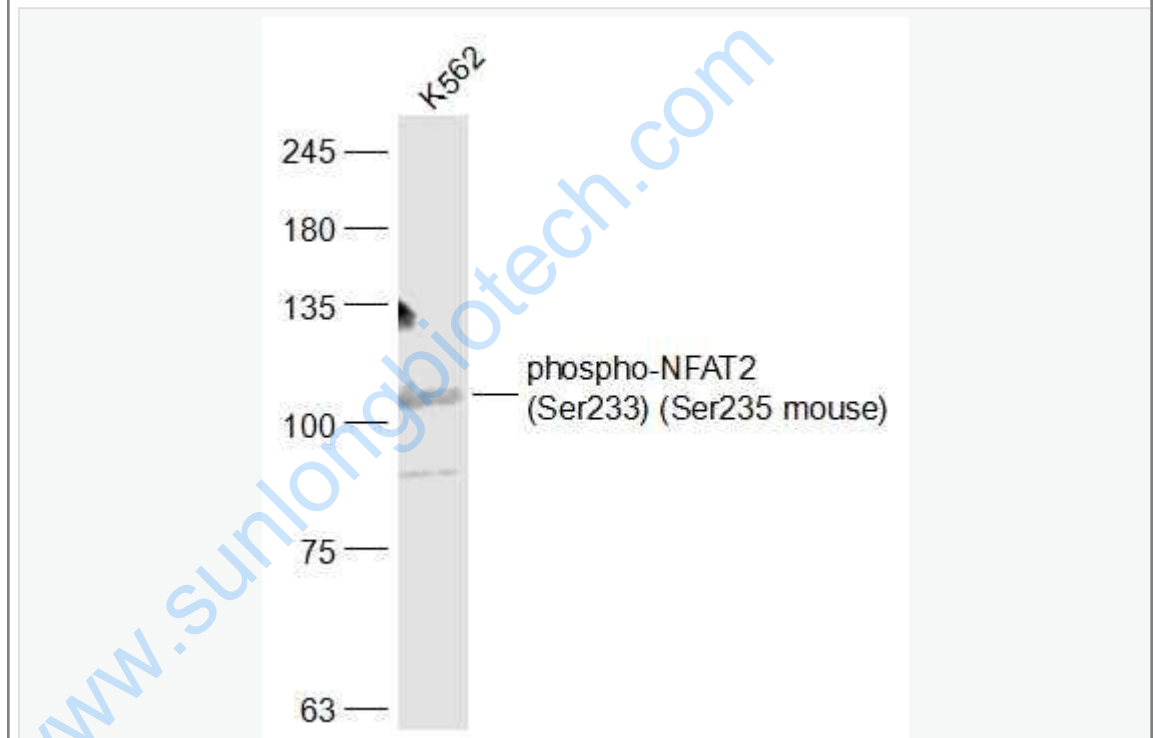
[Unigene: 534074](#) Human

[Unigene: 701518](#) Human

**Important Note:**

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

**Picture:**



Sample:

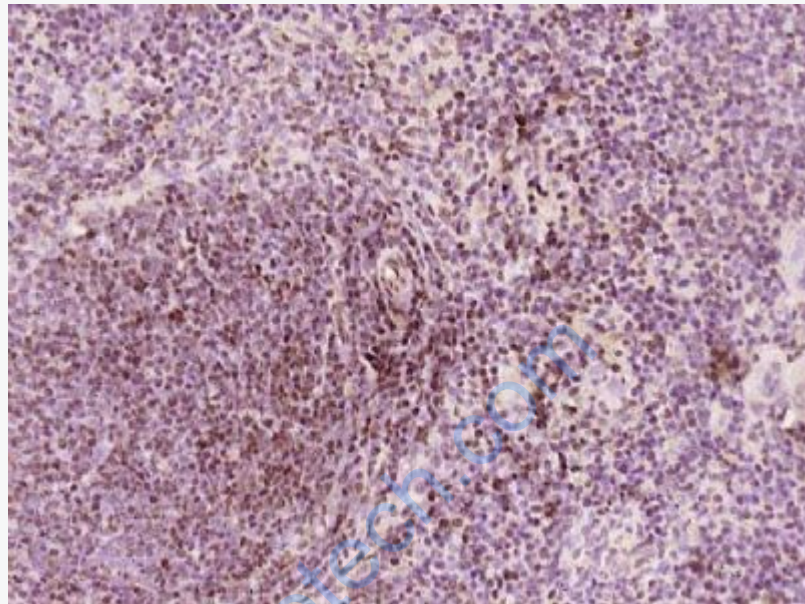
K562(Human) Cell Lysate at 30 ug

Primary: Anti-phospho-NFAT2 (Ser233) (Ser235 mouse)(SL19785R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 101 kD

Observed band size: 101 kD



Paraformaldehyde-fixed, paraffin embedded (Rat spleen); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-NFAT2 (Ser233) (Ser235 mouse)) Polyclonal Antibody, Unconjugated (SL19785R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.