



## Rabbit Anti-phospho-NFAT4 (Ser165) antibody

SL19787R

<b>Product Name:</b>	phospho-NFAT4 (Ser165)
<b>Chinese Name:</b>	磷酸化T细胞转录因子NFAT4抗体
<b>Alias:</b>	NFAT4 (phospho S165); p-NFAT4 (phospho S165); C80703; cytoplasmic 3; D8Ert281e; NF AT4; NF ATc3; NF-AT4; NF-ATc3; NFAC3_HUMAN; NFATc3; NFATx; Nuclear factor of activated T cells, cytoplasmic 3; nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 3; Nuclear factor of activated T-cells; T cell transcription factor NFAT4; T-cell transcription factor NFAT4.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Chicken,Cow,Horse,Rabbit,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>	116kDa
<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 NFAT4 around the phosphorylation site of Ser165:SP(p-S)PA
<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>
<b>Product Detail:</b>	The product of this gene is a member of the nuclear factors of activated T cells 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 (TCR) stimulation and an inducible nuclear component. Other members of this family participate to form this complex also. The product of this gene plays a role in the regulation of gene expression in T cells and immature thymocytes. Several transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Nov 2010]

**Function:**

Plays a role in the inducible expression of cytokine genes in T-cells, especially in the induction of the IL-2.

**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:**

Isoform 1 is predominantly expressed in thymus and is also found in peripheral blood leukocytes and kidney. Isoform 2 is predominantly expressed in skeletal muscle and is also found in thymus, kidney, testis, spleen, prostate, ovary, small intestine, heart, placenta and pancreas. Isoform 3 is expressed in thymus and kidney. Isoform 4 is expressed in thymus and skeletal muscle.

**Post-translational modifications:**

Phosphorylated by NFATC-kinase; dephosphorylated by calcineurin.

**Similarity:**

Contains 1 RHD (Rel-like) domain.

**SWISS:**

Q12968

**Gene ID:**

4775

**Database links:**

[Entrez Gene: 4775](#) Human

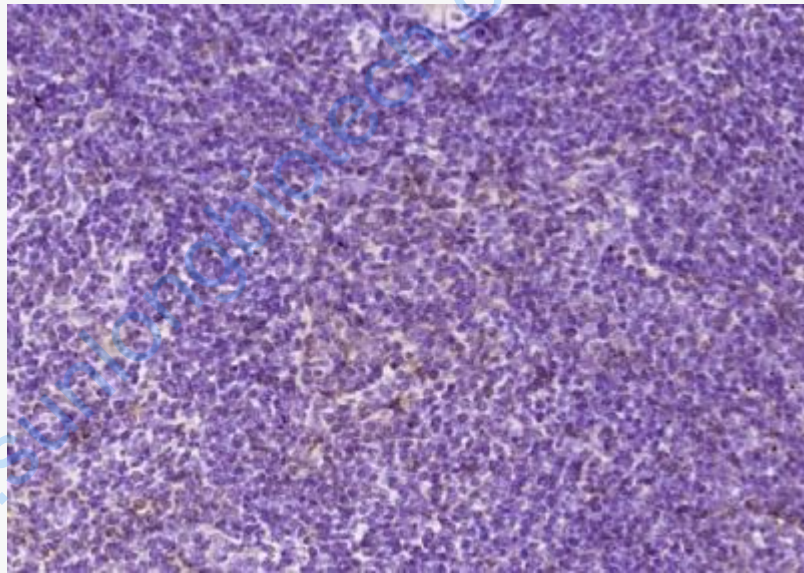
[Entrez Gene: 18021](#) Mouse

[Entrez Gene: 361400](#) Rat

[Omin: 602698](#) Human  
[SwissProt: Q12968](#) Human  
[SwissProt: P97305](#) Mouse  
[Unigene: 436585](#) Human  
[Unigene: 383185](#) Mouse

**Important Note:**

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



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (mouse 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-NFAT4 (Ser165)) Polyclonal Antibody, Unconjugated (SL19787R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.