



Rabbit Anti-NFAT4/Biotin Conjugated antibody

SL2952R-Bio

Product Name Anti-NFAT4/Biotin**Chinese Name** 生物素标记的 T 细胞转录因子 NFAT4 抗体**Alias** 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.**Research Area** Cell biology Chromatin and nuclear signals Signal transduction Apoptosis transcriptional regulatory factor t-lymphocyte Epigenetics**Immunogen Species** Rabbit**Clonality** Polyclonal**React Species** (predicted:Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit)

WB=1000-10000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:500-5000

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.**Molecular weight** 115kDa**Form** Lyophilized or Liquid**Concentration** 1mg/ml**immunogen** KLH conjugated synthetic peptide derived from human NFAT4**Lsotype** IgG**Purification** affinity purified by Protein A**Storage Buffer** 1M TBS(pH7.4) with 1% BSA, 3% 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.**Product Detail** **background:**
Plays a role in the inducible expression of cytokine genes in T-cells, especially in the

induction of the IL-2.

Function:

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

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. NFATC proteins bind to DNA as monomers.

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:

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.

Database links:

[Entrez Gene: 4775](#) Human

[Entrez Gene: 18021](#) Mouse

[Entrez Gene: 361400](#) Rat

[Omim: 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.