



Rabbit Anti-phospho-NFAT5 (Ser1197) antibody

SL9474R

| | |
|-------------------------------|--|
| Product Name: | phospho-NFAT5 (Ser1197) |
| Chinese Name: | 磷酸化活化TThe nucleus因子5蛋白抗体 |
| Alias: | NFAT5 (phospho S1197); p-NFAT5(phospho S1197); Glutamine rich protein H65; KIAA0827; NF AT5; NF-AT5; NFAT 5; NFAT L1; NFAT like protein 1; NFAT5; NFAT5_HUMAN; NFATL 1; NFATL1; NFATZ; Nuclear factor of activated T cells 5; Nuclear factor of activated T cells 5 tonicity responsive; Nuclear factor of activated T cells; Nuclear factor of activated T-cells 5; OREBP; Osmotic response element binding protein; T cell transcription factor NFAT 5; T cell transcription factor NFAT5; T-cell transcription factor NFAT5; TonE binding protein; TonE-binding protein ; TonEBP; Tonicity responsive enhancer binding protein; Tonicity-responsive enhancer-binding protein. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit, |
| Applications: | ELISA=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. |
| Molecular weight: | 166kDa |
| Cellular localization: | The nucleus |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthesised phosphopeptide derived from human NFAT5 around the phosphorylation site of Ser1197:ML(p-S)QE |
| 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 |
| Product Detail: | <p>Members of the NFAT (nuclear factor of activated T cells) family of transcription factors are related to NFκB/Rel proteins and form cooperative complexes with the AP-1 proteins, Fos and Jun, on DNA to regulate cytokine expression in T cells. NFAT proteins are widely expressed and alternatively modified to generate splice variants, and they are localized to both the cytosol (NFATc) and to the nucleus (NFATn). NFAT1, NFAT2, and NFAT4 are predominantly expressed in immune cells, and NFAT2 and NFAT3 are expressed at high levels in cardiac tissues. In addition to activating cytokine gene transcription, NFAT2 is also implicated in cardiac valve development, and NFAT3 is involved in cardiac hypertrophy. NFAT5 is detected in both immune and nonimmune cells and, like other NFAT proteins, contains a highly conserved Rel-like binding domain that mediates NFAT proteins associating with specific consensus sequences on DNA. NFAT proteins are activated by increases in intracellular calcium, which leads to the calmodulin-dependent phosphatase, calcineurin, dephosphorylating NFAT proteins. This activating event induces a conformational change in the protein structure that exposes the nuclear localization signal and facilitates the translocation of NFAT proteins from the cytosol into the nucleus.</p> <p>Function: Plays a role in the inducible expression of genes.Regulates hypertonicity-induced cellular accumulation of osmolytes.</p> <p>Subunit: Homodimer when bound to DNA, completely encircles its DNAtarget. Does not bind with Fos and Jun transcription factors.</p> <p>Subcellular Location: Nucleus.</p> <p>Tissue Specificity: Highest levels in skeletal muscle, brain, heart and peripheral blood leukocytes. Also expressed in placenta, lung, liver, kidney, pancreas, spleen, thymus, prostate, testis, ovary, small intestine and colon.</p> <p>Post-translational modifications: Phosphorylated at Thr-135 by CDK5 in response to osmoticstress; this phosphorylation mediates its rapid nuclearlocalization.</p> <p>Similarity: Contains 1 RHD (Rel-like) domain.</p> <p>SWISS: O94916</p> |

Gene ID:
10725

Database links:

[Entrez Gene: 10725](#)Human

[Entrez Gene: 54446](#)Mouse

[Entrez Gene: 307820](#)Rat

[Omim: 604708](#)Human

[SwissProt: O94916](#)Human

[SwissProt: Q9WV30](#)Mouse

[Unigene: 371987](#)Human

[Unigene: 390057](#)Mouse

Important Note:

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