Product Name: NFATc4 Rabbit Polyclonal Antibody

Catalog #: APRab14644



Summary

Production Name NFATc4 Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

HostRabbitApplicationIF,IHC,WB,ReactivityHuman,Mouse

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

ClonalityPolyclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name NFATC4

NFATC4; NFAT3; Nuclear factor of activated T-cells; cytoplasmic 4; NF-ATc4; NFATc4; Alternative Names

T-cell transcription factor NFAT3; NF-AT3

Gene ID 4776.0

Q14934.The antiserum was produced against synthesized peptide derived from human **SwissProt ID**

NFAT3. AA range:642-691

Application

WB 1:500 - 1:2000 IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested

Dilution Ratio

in other applications.

Molecular Weight 135kD

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Background

This gene encodes a member of the nuclear factor of activated T cells (NFAT) protein family. The encoded protein is part of a 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 stimulation and an inducible nuclear component. NFAT proteins are activated by the calmodulin-dependent phosphatase, calcineurin. The encoded protein plays a role in the inducible expression of cytokine genes in T cells, especially in the induction of interleukin-2 and interleukin-4. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014],domain:Rel Similarity Domain (RSD) allows DNAbinding and cooperative interactions with AP1 factors, function: Plays a role in the inducible expression of cytokine genes in T-cells, especially in the induction of the IL-2 and IL-4. Transcriptionally repressed by estrogen receptors; this inhibition is further enhanced by estrogen. Increases the transcriptional activity of PPARG and has a direct role in adipocyte differentiation. May play an important role in myotube differentiation. May play a critical role in cardiac development and hypertrophy. May play a role in deafferentation-induced apoptosis of sensory neurons., PTM: Phosphorylated by NFATCkinases; dephosphorylated by calcineurin. Phosphorylated on Ser-168 and Ser-170 by FRAP1, IRAK1, MAPK7 and MAPK14, on Ser-213 and Ser-217 by MAPK8 and MAPK9, and on Ser-289 and Ser-344 by RPS6KA3. Phosphorylated by GSK3B.,PTM:Ubiquitinated, leading to its degradation by the proteasome and reduced transcriptional activity. Ubiquitination and reduction in transcriptional activity can be further facilitated through GSK3B-dependent phosphorylation. Polyubiquitin linkage is mainly through 'Lys-48', similarity: Contains 1 IPT/TIG domain., similarity: Contains 1 RHD (Rel-like) domain, subcellular location: 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., 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. Interacts with CREBBP, GATA4, IRAK1, MAPK8, MAPK9 and RPS6KA3.,tissue specificity:Highly expressed in placenta, lung, kidney, testis and ovary. Weakly expressed in spleen and thymus. Not expressed in peripheral blood lymphocytes. Detected in hippocampus.,

Research Area

MAPK_ERK_Growth;MAPK_G_Protein;WNT;WNT-T CELLAxon guidance;VEGF;Natural killer cell mediated cytotoxicity;T_Cell_Receptor;B_Cell_Antigen;

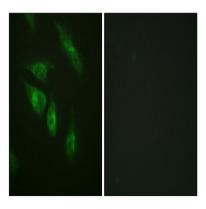
Image Data

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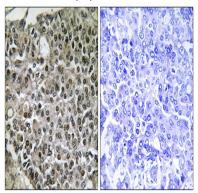
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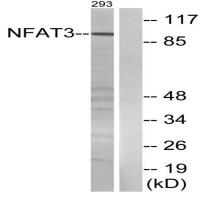




Immunofluorescence analysis of HeLa cells, using NFAT3 Antibody. The picture on the right is blocked with the synthesized peptide.



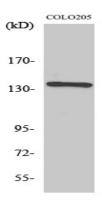
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using NFAT3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293 cells, using NFAT3 Antibody. The lane on the right is blocked with the synthesized peptide.

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Western Blot analysis of various cells using NFATc4 Polyclonal Antibody diluted at 1: 500

Note

For research use only.