Product Name: NFATc2 Rabbit Polyclonal Antibody
Catalog #: APRab14641

Summary

Production Name	NFATc2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	NFATC2 NFAT1 NFATP
Alternative Names	Nuclear factor of activated T-cells, cytoplasmic 2 (NF-ATc2;NFATc2;NFAT pre-existing subunit;NF-ATp;T-cell transcription factor NFAT1)
Gene ID	4773.0
SwissProt ID	Q13469.Synthetic peptide from human protein at AA range: 640-700

Application

Dilution Ratio	IHC 1:50-200 ELISA 1:10000-20000
Molecular Weight	100kD

Background

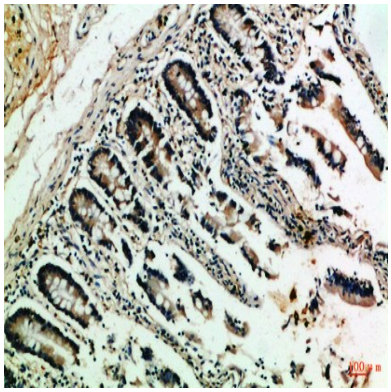
This gene is a member of the nuclear factor of activated T cells (NFAT) family. The product of this gene is a DNA-binding

protein with a REL-homology region (RHR) and an NFAT-homology region (NHR). This protein is present in the cytosol and only translocates to the nucleus upon T cell receptor (TCR) stimulation, where it becomes a member of the nuclear factors of activated T cells transcription complex. This complex plays a central role in inducing gene transcription during the immune response. Alternate transcriptional splice variants encoding different isoforms have been characterized. [provided by RefSeq, Apr 2012],alternative products:Additional isoforms seem to exist,domain:Rel Similarity Domain (RSD) allows DNA-binding 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, IL-3, IL-4, TNF-alpha or GM-CSF.,induction:Inducibly expressed in T-lymphocytes upon activation of the T-cell receptor (TCR) complex. Induced after co-addition of phorbol 12-myristate 13-acetate (PMA) and ionomycin.,PTM:In resting cells, phosphorylated by NFATC-kinase on at least 18 sites in the 99-363 region. Upon cell stimulation, all these sites except Ser-243 are dephosphorylated by calcineurin. Dephosphorylation induces a conformational change that simultaneously exposes an NLS and masks an NES, which results in nuclear localization. Simultaneously, Ser-53 or Ser-56 is phosphorylated; which is required for full transcriptional activity.,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. The phosphorylated form specifically interacts with XPO1; which mediates nuclear export. NFATC proteins bind to DNA as monomers. Interacts with NFATC2IP.,tissue specificity:Expressed in thymus, spleen, heart, testis, brain, placenta, muscle and pancreas.,

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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Immunohistochemical analysis of paraffin-embedded Human-colon, antibody was diluted at 1:100

Note

For research use only.