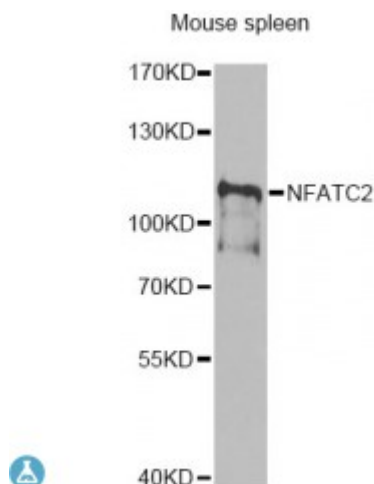


Anti-NFATC2 Antibody



Description

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.

Model	STJ116122
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-300 of human NFATC2 (NP_775114.1).
Gene ID	4773
Gene Symbol	NFATC2
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Expressed in thymus, spleen, heart, testis, brain, placenta, muscle and pancreas, Isoform 1 is highly expressed in the small intestine, heart, testis, prostate, thymus, placenta and thyroid, Isoform 3 is highly expressed in stomach, uterus, placenta, trachea and thyroid
Purification	Affinity purification

Note	For Research Use Only (RUO).
Protein Name	Nuclear factor of activated T-cells cytoplasmic 2 NF-ATc2 NFATc2 NFAT pre-existing subunit NF-ATp T-cell transcription factor NFAT1
Molecular Weight	100.146 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:7776OMIM:600490Reactome:R-HSA-2025928
Alternative Names	Nuclear factor of activated T-cells cytoplasmic 2 NF-ATc2 NFATc2 NFAT pre-existing subunit NF-ATp T-cell transcription factor NFAT1
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, Promotes invasive migration through the activation of GPC6 expression and WNT5A signaling pathway,
Cellular Localization	Cytoplasm, Nucleus,
Post-translational Modifications	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