

ARG65024 anti-NFATc2 / NFAT1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes NFATc2 / NFAT1
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow, Dog
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognize all three reported isoforms (NP_036472.2; NP_775114.1; NP_001129493.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	NFATc2 / NFAT1
Species	Human
Immunogen	C-QQFRTGLSPDARYQ
Conjugation	Un-conjugated
Alternate Names	NFATc2; NFATP; NFAT1; NFAT pre-existing subunit; NF-ATc2; T-cell transcription factor NFAT1; Nuclear factor of activated T-cells, cytoplasmic 2; NF-ATp

Application Instructions

Application table	Application	Dilution
	IHC-P	3 - 6 µg/ml
	WB	0.3 - 1 µg/ml
Application Note	IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

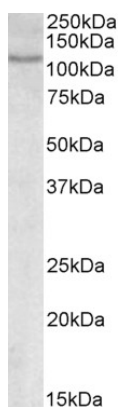
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

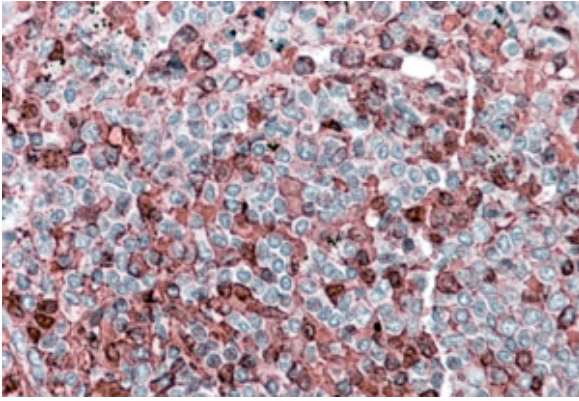
Database links	GeneID: 4773 Human Swiss-port # Q13469 Human
Background	This gene is a member of the nuclear factor of activated T cells (NFAT) family. The product of this gene is a DNA-binding protein with a REL-homology region (RHR) and an NFAT-homology region (NHR). This protein is present in the cytosol 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]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Gene Regulation antibody; Immune System antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	100 kDa
PTM	<p>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.</p> <p>Ubiquitinated in endothelial cells by RNF213 downstream of the non-canonical Wnt signaling pathway, leading to its degradation by the proteasome.</p>

Images



ARG65024 anti-NFATc2 / NFAT1 antibody WB image

Western blot: MOLT4 lysate (35 µg protein in RIPA buffer) stained with ARG65024 anti-NFATc2 / NFAT1 antibody at 0.3 µg/ml dilution.



ARG65024 anti-NFATc2 / NFAT1 antibody IHC-P image

Immunohistochemistry: Paraffin embedded Human Spleen.
(Steamed antigen retrieval with citrate buffer pH 6) stained with
ARG65024 anti-NFATc2 / NFAT1 antibody at 3.8 µg/ml dilution
followed by AP-staining.