

ARG43375 anti-NFATc2 / NFAT1 phospho (Ser326) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes NFATc2 / NFAT1 phospho (Ser326)
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Specificity	The antibody detects endogenous levels of NFAT1 only when phosphorylated at Ser326.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NFATc2 / NFAT1
Species	Human
Immunogen	KLH-conjugated phosphospecific peptide around Ser326 of Human NFATc2 / NFAT1.
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
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Rat brain	
Observed Size	100 kDa	

Properties

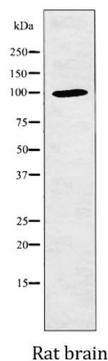
Form	Liquid
Purification	Affinity purification with phospho-specific peptide and the non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Buffer	PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 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. 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

Gene Symbol	NFATC2
Gene Full Name	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2
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]
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. [UniProt]
Calculated Mw	100 kDa
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. Ubiquitinated in endothelial cells by RNF213 downstream of the non-canonical Wnt signaling pathway, leading to its degradation by the proteasome. [UniProt]
Cellular Localization	Cytoplasm. Nucleus. Note=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. [UniProt]

Images



ARG43375 anti-NFATc2 / NFAT1 phospho (Ser326) antibody WB image

Western blot: Rat brain lysate stained with ARG43375 anti-NFATc2 / NFAT1 phospho (Ser326) antibody.