

Rabbit NFAT5 Polyclonal Antibody | anti-NFAT5 antibody

Phospho-NFAT5 (Ser155) Antibody

CATALOG # AAA329321	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry
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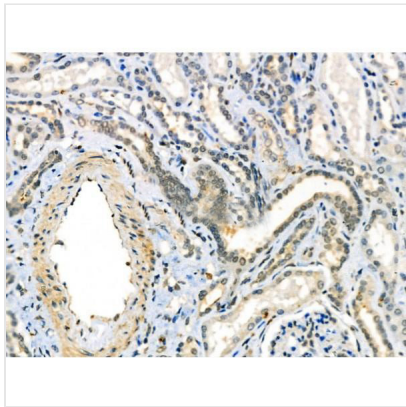
PRODUCT SYNONYMS

NFAT5; Polyclonal Antibody; Phospho-NFAT5 (Ser155) Antibody; Glutamine rich protein H65; KIAA0827; NF AT5; NF-AT5; NFAT 5; NFAT L1; NFAT like protein 1; NFAT5_HUMAN; NFATL 1; NFATL1; NFATZ; Nuclear factor of activated T cells 5; Nuclear factor of activated T cells 5 tonicity responsive; Nuclear factor of activated T cells; Nuclear factor of activated T-cells 5; OREBP; Osmotic response element binding protein; T cell transcription factor NFAT 5; T cell transcription factor NFAT5; T-cell transcription factor NFAT5; TonE binding protein; TonE-binding protein; TonEBP; Tonicity responsive enhancer binding protein; Tonicity-responsive enhancer-binding protein; anti-NFAT5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-NFAT5 (Ser155) Antibody detects endogenous levels of NFAT5 only when phosphorylated at Ser155. Tissue Specificity: Widely expressed, with highest levels in skeletal muscle, brain, heart and peripheral blood leukocytes.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-NFAT5 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry)
Immunogen	A synthesized peptide derived from human NFAT5 around the phosphorylation site of Ser155.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated. Phosphorylated at Thr-135 by CDK5 in response to osmotic stress; this phosphorylation mediates its rapid nuclear localization.
Subunit Structure	Homodimer when bound to DNA, completely encircles its DNA target. Interacts with CIDEA; this interaction is direct and retains NFAT5 in the cytoplasm (By similarity). Does not bind with Fos and Jun transcription factors. Interacts with DDX5 and DDX17; this interaction leads to DDX5/DDX17 recruitment to LNC2 and S100A4 promoters and NFAT5-mediated DDX5/DDX17-enhanced transactivation.
Subcellular Location	Nucleus. Cytoplasm. Note: Nuclear distribution increases under hypertonic conditions.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
Staining Human kidney cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-NFAT5 antibody	Transcription factor involved, among others, in the transcriptional regulation of osmoprotective and inflammatory genes. Mediates the transcriptional response to hypertonicity. Positively regulates the transcription of LCN2 and S100A4 genes; optimal transactivation of these genes requires the presence of DDX5/DDX17. Binds the DNA consensus sequence 5'-[ACT][AG]TGGAAA[CAT]A[TA][ATC][CA][ATG][GT][GAC][CG][CT]-3'.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	164419746
NCBI GeneID	10725
NCBI Accession #	NP_001106649.1
NCBI GenBank Nucleotide #	NM_001113178.2
UniProt Accession #	O94916; O95693; Q9UN18; A2RRB4; A6H8V5
Molecular Weight	165,763 Da
NCBI Official Full Name	nuclear factor of activated T-cells 5 isoform d
NCBI Official Synonym Full Names	nuclear factor of activated T-cells 5, tonicity-responsive
NCBI Official Symbol	NFAT5
NCBI Official Synonym Symbols	NFATZ; OREBP; NF-AT5; NFATL1; TONEBP
NCBI Protein Information	nuclear factor of activated T-cells 5; NFAT-like protein 1; TonE-binding protein; glutamine rich protein H65; T-cell transcription factor NFAT5; osmotic response element-binding protein; tonicity-responsive enhancer-binding protein
UniProt Protein Name	Nuclear factor of activated T-cells 5
UniProt Gene Name	NFAT5
UniProt Synonym Gene Names	KIAA0827; TONEBP; NF-AT5; TonE-binding protein; TonEBP
UniProt Entry Name	NFAT5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

