

Rabbit NFAT5/TonEBP Polyclonal Antibody | anti-NFAT5/TonEBP antibody

Phospho-NFAT5/TonEBP (Ser145) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328333	Rabbit	Human, Mouse Predicted: Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken	ELISA, Immunohistochemistry, Western Blot

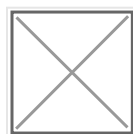
PRODUCT SYNONYMS

NFAT5/TonEBP; Polyclonal Antibody; Phospho-NFAT5/TonEBP (Ser145) Antibody; Glutamine rich protein H65; KIAA0827; NF AT5; NF-AT5; NFAT 5; NFAT L1; NFAT like protein 1; NFAT5; 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/TonEBP antibody

PRODUCT SPECIFICATIONS

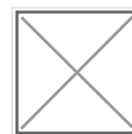
Host	Rabbit
Reactivity	Human, Mouse Predicted: Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-NFAT5/TonEBP (Ser145) Antibody detects endogenous levels of NFAT5/TonEBP only when phosphorylated at Ser145.
Purity/Purification	Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1548
Applicable Applications for anti-NFAT5/TonEBP antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human NFAT5/TonEBP around the phosphorylation site of Ser145.
Tissue Specificity	Widely expressed, with highest levels in skeletal muscle, brain, heart and peripheral blood leukocytes.
Subcellular Location	Nucleus
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Phospho-NFAT5/TonEBP (Ser145) in lysates of HepG2, using Phospho-NFAT5/TonEBP (Ser145) Antibody.



IHC (Immunohistochemistry)

At 1/100 staining human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary

ADDITIONAL INFORMATION

Related Product Information for anti-NFAT5/TonEBP antibody	<p>Description: Transcription factor involved, among others, in the transcriptional regulation of osmoprotective and inflammatory genes. Mediates the transcriptional response to hypertonicity (PubMed:10051678). Positively regulates the transcription of LCN2 and S100A4 genes; optimal transactivation of these genes requires the presence of DDX5/DDX17 (PubMed:22266867). Binds the DNA consensus sequence 5'-[ACT][AG]TGGAAA[CAT]A[TA][ATC][CA][ATG][GT][GAC][CG][CT]-3' (PubMed:10377394).</p> <p>Post Translational Modifications: Phosphorylated (PubMed:10377394). Phosphorylated at Thr-135 by CDK5 in response to osmotic stress; this phosphorylation mediates its rapid nuclear localization (PubMed:21209322).</p> <p>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 (PubMed:22266867).</p>
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NCBI AND UNIPROT INFORMATION

NCBI GI #	164419746
NCBI GeneID	10725
NCBI Accession #	NP_001106649.1
NCBI GenBank Nucleotide #	NP_001106649.1
UniProt Accession #	O94916
Molecular Weight	Observed: 160 kDa Predicted: 166 kDa
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
NCBI Official Symbol	NFAT5
NCBI Official Synonym Symbols	NFATZ; OREBP; NF-AT5; NFATL1; TONEBP
NCBI Protein Information	nuclear factor of activated T-cells 5
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.