Datasheet for ABIN2780747
anti-NFATC1 antibody (N-Term)

2 Images

Overview

Quantity:	100 μL
Target:	NFATC1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NFATC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human NFATC1
Sequence:	PSTSFPVPSK FPLGPAAAVF GRGETLGPAP RAGGTMKSAE EEHYGYASSN
Predicted Reactivity:	Guinea Pig: 86%, Human: 100%, Mouse: 79%, Rat: 86%
Characteristics:	This is a rabbit polyclonal antibody against NFATC1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	NFATC1

Target Details

Alternative Name:	NFATC1 (NFATC1 Products)
Background:	NFATC1 is a component of the nuclear factor of activated T cells DNA-binding transcription complex. This complex consists of at least two components: a preexisting cytosolic component that translocates to the nucleus upon T cell receptor (TCR) stimulation, and an inducible nuclear component. Proteins belonging to this family of transcription factors play a central role in inducible gene transcription during immune response. The product of this gene is an inducible nuclear component. It functions as a major molecular target for the immunosuppressive drugs such as cyclosporin A. Different isoforms of this protein may regulate inducible expression of different cytokine genes. The product of this gene is a component of the nuclear factor of activated T cells DNA-binding transcription complex. This complex consists of at least two components: a preexisting cytosolic component that translocates to the nucleus upon T cell receptor (TCR) stimulation, and an inducible nuclear component. Proteins belonging to this family of transcription factors play a central role in inducible gene transcription during immune response. The product of this gene is an inducible nuclear component. It functions as a major molecular target for the immunosuppressive drugs such as cyclosporin A. Five transcript variants encoding distinct isoforms have been identified for this gene. Different isoforms of this protein may regulate inducible expression of different cytokine genes. Alias Symbols: MGC138448, NF-ATC, NFAT2, NFATc Protein Interaction Partner: YWHAQ, OGT, PML, GZF1, FOXP3, HDAC4, PIAS1, SUMO1, UBE2I, RPS6KB1, RPS6KA3, HDAC2, HDAC1, HNRNPA1, TUBA1A, KPNB1, HDAC5, KAT2B, EP300, PARP1, HDAC3, PPP3R1, MAPK14, GNB2L1, PRKCA, SPI1, PIM1, EGR2, EGR1, Protein Size: 716
Molecular Weight:	78 kDa
Gene ID:	4772
NCBI Accession:	NM_172390, NP_765978
UniProt:	Q2M1S3
Pathways:	RTK Signaling, WNT Signaling, Fc-epsilon Receptor Signaling Pathway

Application Details

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Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 716 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images

Western Blotting

Image 1. WB Suggested Anti-NFATC1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Human Placenta
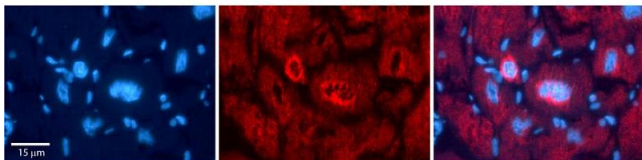
Immunohistochemistry

Image 2. Rabbit Anti-NFATC1 Antibody Formalin Fixed Paraffin Embedded Tissue: Human Adult heart Observed Staining: Cytoplasmic,Nuclear (nuclear membrane) Primary Antibody Concentration: 1:600 Secondary Antibody: Donkey anti-Rabbit-Cy2/3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 – 2.0 sec Protocol located in Reviews and Data.