Recombinant Human NFAT5 cell lysate

Cat. No. NFAT5-1187HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human NFAT5 cell lysate, transcript variant 6, was derived from Human HEK293T cell line.
Species	Human
Source	HEK293
Description	The product of this gene is a member of the nuclear factors of activated T cells family of transcription factors. Proteins belonging to this family play a central role in inducible gene transcription during the immune response. This protein regulates gene expression induced by osmotic stress in mammalian cells. Unlike monomeric members of this protein family, this protein exists as a homodimer and forms stable dimers with DNA elements. Multiple transcript variants encoding different isoforms have been found for this gene.
Form	1 vial of 100 µg gene specific transient over-expression cell lysate in RIPA buffer(25mM Tris-HCl pH7.6, 150mM NaCl, 1% NP-40, 1mM EDTA, 1xProteinase inhibitor cocktail mix (Sigma), 1mM PMSF and 1mM Na3VO4). 1 vial of 100 µg empty vector transfected control cell lysate in RIPA buffer. 1 vial of 250ul 2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromphenol blue, 100mM DTT).
Molecular Mass	167.6 kDa
Storage	The lysate is shipped with dry ice. Upon receiving, store the sample at -20 centigrade.

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	Lysate samples are stable for 12 months from date of receipt when stored at -20 centigrade. Avoid repeated freeze-thaw cycles. Lysate samples can be diluted with 2xSDS Sample Buffer provided. After dilution, the protein sample should be aliquoted and stored at -20 centigrade for long term storage. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name	NFAT5 nuclear factor of activated T-cells 5, tonicity-responsive [Homo sapiens]
Official Symbol	NFAT5
Synonyms	NFAT5; nuclear factor of activated T-cells 5, tonicity-responsive; nuclear factor of activated T-cells 5; KIAA0827; NF AT5; NFATL1; NFATZ; OREBP; TONEBP; 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; NF-AT5;
Gene ID	10725
mRNA Refseq	NM_001113178
Protein Refseq	NP_001106649
MIM	604708
UniProt ID	O94916
Chromosome Location	16q22.1

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Pathway	Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; B cell receptor signaling pathway, organism-specific biosystem; B cell receptor signaling pathway, conserved biosystem; HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved biosystem; Natural killer cell mediated cytotoxicity, organism-specific biosystem;
Function	DNA binding; sequence-specific DNA binding transcription factor activity;

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