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ILF2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20063a

Product Information

Application	WB, E
Primary Accession	Q12905
Other Accession	Q7TP98, Q9CXY6, Q6NZ06, NP_004506.2
Reactivity	Human
Predicted	Zebrafish, Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB42341
Calculated MW	43062
Antigen Region	84-112

Additional Information

Gene ID	3608
Other Names	Interleukin enhancer-binding factor 2, Nuclear factor of activated T-cells 45 kDa, ILF2, NF45
Target/Specificity	This ILF2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 84-112 amino acids from the N-terminal region of human ILF2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ILF2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ILF2
Synonyms	NF45

Function	Chromatin-interacting protein that forms a stable heterodimer with interleukin enhancer-binding factor 3/ILF3 and plays a role in several biological processes including transcription, innate immunity or cell growth (PubMed:18458058, PubMed:31212927). Essential for the efficient reshuttling of ILF3 (isoform 1 and isoform 2) into the nucleus. Together with ILF3, forms an RNA-binding complex that is required for mitotic progression and cytokinesis by regulating the expression of a cluster of mitotic genes. Mechanistically, competes with STAU1/STAU2-mediated mRNA decay (PubMed:32433969). Also plays a role in the inhibition of various viruses including Japanese encephalitis virus or enterovirus 71.
Cellular Location	Nucleus, nucleolus. Cytoplasm. Nucleus. Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs

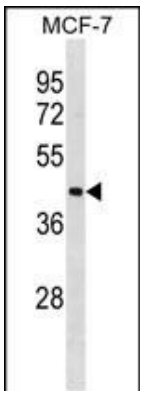
Background

Nuclear factor of activated T-cells (NFAT) is a transcription factor required for T-cell expression of the interleukin 2 gene. NFAT binds to a sequence in the interleukin 2 gene enhancer known as the antigen receptor response element 2. In addition, NFAT can bind RNA and is an essential component for encapsidation and protein priming of hepatitis B viral polymerase. NFAT is a heterodimer of 45 kDa and 90 kDa proteins, the smaller of which is the product of this gene. The encoded protein binds strongly to the 90 kDa protein and stimulates its ability to enhance gene expression.

References

Karmakar, S., et al. EMBO J. 29(19):3260-3271(2010)
Davila, S., et al. Genes Immun. 11(3):232-238(2010)
Graber, T.E., et al. Cell Death Differ. 17(4):719-729(2010)
Kiesler, P., et al. J. Biol. Chem. 285(11):8256-8267(2010)
Sakamoto, S., et al. Mol. Cell. Biol. 29(13):3754-3769(2009)

Images



ILF2 Antibody (N-term) (Cat. #AP20063a) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the ILF2 antibody detected the ILF2 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.