

**Goat Anti-ILF2 / NF45 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1564a****Specification**

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**Goat Anti-ILF2 / NF45 Antibody - Product Information**

Application	WB, IHC, E
Primary Accession	<a href="#">Q12905</a>
Other Accession	<a href="#">NP_004506</a> , <a href="#">3608</a> , <a href="#">67781 (mouse)</a> , <a href="#">310612 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5mg/ml
Isotype	IgG
Calculated MW	43062

**Goat Anti-ILF2 / NF45 Antibody - Additional Information****Gene ID** 3608**Other Names**

Interleukin enhancer-binding factor 2, Nuclear factor of activated T-cells 45 kDa, ILF2, NF45

**Dilution**WB~~1:1000  
IHC~~1:100~500  
E~~N/A**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-ILF2 / NF45 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-ILF2 / NF45 Antibody - 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:<a href="http://www.uniprot.org/citations/18458058" target="\_blank">18458058</a>, PubMed:<a href="http://www.uniprot.org/citations/31212927" target="\_blank">31212927</a>). 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:<a href="http://www.uniprot.org/citations/32433969" target="\_blank">32433969</a>). 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

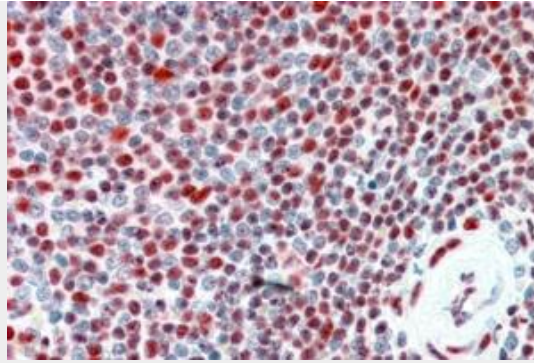
**Goat Anti-ILF2 / NF45 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-ILF2 / NF45 Antibody - Images**

AF1564a (0.03 µg/ml) staining of Human Tonsil lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1564a (2.5 µg/ml) staining of paraffin embedded Human Spleen. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

#### **Goat Anti-ILF2 / NF45 Antibody - 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.

#### **Goat Anti-ILF2 / NF45 Antibody - References**

New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.

NF45 and NF90 regulate HS4-dependent interleukin-13 transcription in T cells. Kiesler P, et al. J Biol Chem, 2010 Mar 12. PMID 20051514.

NF45 functions as an IRES trans-acting factor that is required for translation of cIAP1 during the unfolded protein response. Graber TE, et al. Cell Death Differ, 2010 Apr. PMID 19893574.

The NF90-NF45 complex functions as a negative regulator in the microRNA processing pathway. Sakamoto S, et al. Mol Cell Biol, 2009 Jul. PMID 19398578.

Nuclear factor 45 (NF45) is a regulatory subunit of complexes with NF90/110 involved in mitotic control. Guan D, et al. Mol Cell Biol, 2008 Jul. PMID 18458058.