

LITAF Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2640a**Specification**

LITAF Antibody (internal region) - Product Information

Application	IHC, E
Primary Accession	Q99732
Other Accession	NP_004853.2 , NP_001129945.1 , 9516 , 56722 (mouse), 65161 (rat)
Predicted	Human, Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	17107

LITAF Antibody (internal region) - Additional Information**Gene ID** 9516**Other Names**

Lipopolysaccharide-induced tumor necrosis factor-alpha factor, LPS-induced TNF-alpha factor, Small integral membrane protein of lysosome/late endosome, p53-induced gene 7 protein, LITAF, PIG7, SIMPLE

Dilution

IHC~~1:100~500

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 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

LITAF Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

LITAF Antibody (internal region) - Protein Information**Name** LITAF**Function**

Plays a role in endosomal protein trafficking and in targeting proteins for lysosomal degradation

(PubMed:23166352). Plays a role in targeting endocytosed EGFR and ERG3 for lysosomal degradation, and thereby helps down-regulate downstream signaling cascades (PubMed:23166352). Helps recruit the ESCRT complex components TSG101, HGS and STAM to cytoplasmic membranes (PubMed:23166352). Probably plays a role in regulating protein degradation via its interaction with NEDD4 (PubMed:15776429). May also contribute to the regulation of gene expression in the nucleus (PubMed:10200294, PubMed:15793005). Binds DNA (in vitro) and may play a synergistic role with STAT6 in the nucleus in regulating the expression of various cytokines (PubMed:15793005). May regulate the expression of numerous cytokines, such as TNF, CCL2, CCL5, CXCL1, IL1A and IL10 (PubMed:10200294, PubMed:15793005).

Cellular Location

Cytoplasm. Nucleus. Lysosome membrane; Peripheral membrane protein; Cytoplasmic side. Early endosome membrane. Late endosome membrane. Endosome membrane; Peripheral membrane protein; Cytoplasmic side. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Golgi apparatus membrane. Note=Associated with membranes of lysosomes, early and late endosomes (PubMed:11274176, PubMed:27582497, PubMed:27927196). Can translocate from the cytoplasm into the nucleus (PubMed:15793005). Detected at Schmidt-Lanterman incisures and in nodal regions of myelinating Schwann cells (By similarity) {ECO:0000250|UniProtKB:Q9JLJ0, ECO:0000269|PubMed:11274176, ECO:0000269|PubMed:15793005, ECO:0000269|PubMed:27582497, ECO:0000269|PubMed:27927196}

Tissue Location

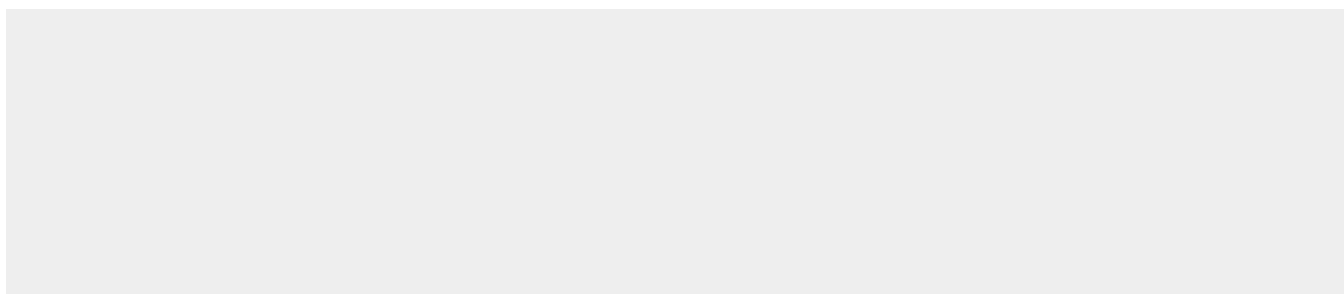
Ubiquitously and abundantly expressed. Expressed predominantly in the placenta, peripheral blood leukocytes, lymph nodes and spleen.

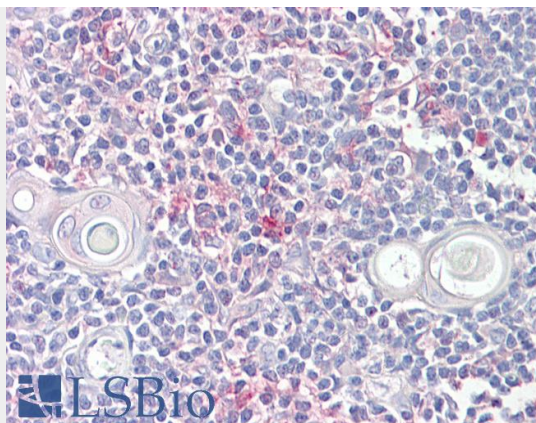
LITAF Antibody (internal region) - Protocols

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](#)

LITAF Antibody (internal region) - Images





EB08099 (6.5 µg/ml) staining of paraffin embedded Human Thymus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

LITAF Antibody (internal region) - Background

This antibody is expected to crossreact with both reported isoforms (NP_004853.2; NP_001129945.1).

LITAF Antibody (internal region) - References

LPS-induced TNF-alpha factor (LITAF)-deficient mice express reduced LPS-induced cytokine: Evidence for LITAF-dependent LPS signaling pathways. Tang X, Metzger D, Leeman S, Amar S. Proc Natl Acad Sci U S A. 2006 Sep 12;103(37):13777-82. Epub 2006 Sep 5. Erratum PMID: 16954198