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LITAF Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF2640a

Specification

LITAF Antibody (internal region) - Product Information

Application	**IHC**
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

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 ERGG3 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:27927196, PubMed:27582497). 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 Cytomety
- Cell Culture

LITAF Antibody (internal region) - Images

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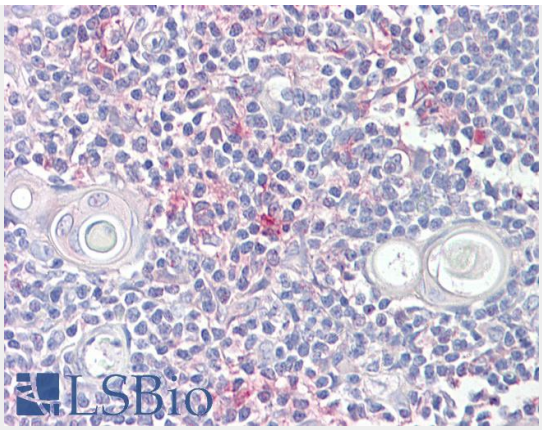

EB08099 (6.5 µg/ml) staining of paraffin embedded Human Thymus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

LITAF Antibody (internal region) - Background

This antibody is excpected 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