

**LITAF Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS15703****Specification**

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**LITAF Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC, WB                |
| Primary Accession | <a href="#">Q99732</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 17kDa KDa              |

**LITAF Antibody - 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

**Target/Specificity**

Human LITAF. Predicted cross-reactivity based on amino acid sequence homology: mouse (85%), rat (86%), bovine (86%).

**Reconstitution & Storage**

Aliquot and store at -20°C. Minimize freezing and thawing.

**Precautions**

LITAF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**LITAF Antibody - Protein Information****Name** LITAF**Function**

Plays a role in endosomal protein trafficking and in targeting proteins for lysosomal degradation (PubMed:<a href="http://www.uniprot.org/citations/23166352" target="\_blank">23166352</a>). Plays a role in targeting endocytosed EGFR and ERGG3 for lysosomal degradation, and thereby helps down-regulate downstream signaling cascades (PubMed:<a href="http://www.uniprot.org/citations/23166352" target="\_blank">23166352</a>). Helps recruit the ESCRT complex components TSG101, HGS and STAM to cytoplasmic membranes (PubMed:<a href="http://www.uniprot.org/citations/23166352" target="\_blank">23166352</a>). Probably plays a role in regulating protein degradation via its interaction with NEDD4 (PubMed:<a href="http://www.uniprot.org/citations/15776429" target="\_blank">15776429</a>). May also contribute to the regulation of gene expression in the nucleus (PubMed:<a href="http://www.uniprot.org/citations/10200294" target="\_blank">10200294</a>, PubMed:<a href="http://www.uniprot.org/citations/10200294" target="\_blank">10200294</a>).

[15793005](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/15793005)). May regulate the expression of numerous cytokines, such as TNF, CCL2, CCL5, CXCL1, IL1A and IL10 (PubMed:[10200294](http://www.uniprot.org/citations/10200294), PubMed:[15793005](http://www.uniprot.org/citations/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.

#### Volume

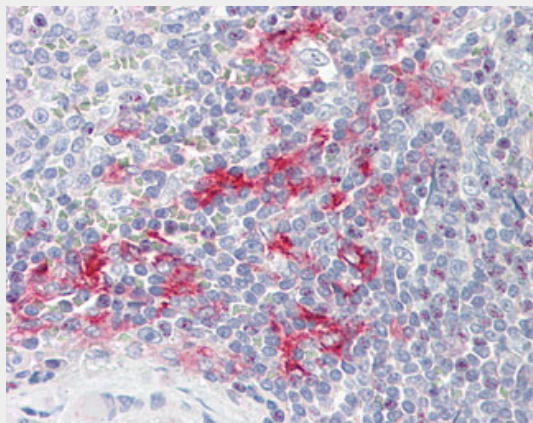
50 µl

#### LITAF Antibody - Protocols

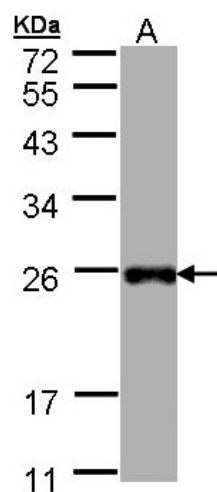
Provided below are standard protocols that you may find useful for product applications.

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

#### LITAF Antibody - Images



Anti-LITAF antibody IHC staining of human spleen.



Sample (30 ug of whole cell lysate). A: Hep G2. 12% SDS PAGE. LITAF antibody diluted at 1:1000

#### **LITAF Antibody - Background**

Probable role in regulating transcription of specific genes. May regulate through NFkB1 the expression of the CCL2/MCP-1 chemokine. May play a role in tumor necrosis factor alpha (TNF-alpha) gene expression.

#### **LITAF Antibody - References**

- Polyak K.,et al.Nature 389:300-306(1997).
- Myokai F.,et al.Proc. Natl. Acad. Sci. U.S.A. 96:4518-4523(1999).
- Moriwaki Y.,et al.J. Biol. Chem. 276:23065-23076(2001).
- Ota T.,et al.Nat. Genet. 36:40-45(2004).
- Bechtel S.,et al.BMC Genomics 8:399-399(2007).