

Rabbit LITAF Polyclonal Antibody | anti-LITAF antibody

LITAF Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327058	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

LITAF; Polyclonal Antibody; LITAF Antibody; Lipopolysaccharide induced TNF alpha factor; CMT1C; FLJ38636; Lipopolysaccharide induced TNF factor; Lipopolysaccharide induced tumor necrosis factor alpha factor; Lipopolysaccharide-induced tumor necrosis factor-alpha factor; LITAF_HUMAN; LPS induced TNF alpha factor; LPS-induced TNF-alpha factor; MGC116698; MGC116700; MGC116701; MGC125274; MGC125275; MGC125276; p53 induced gene 7 protein; p53-induced gene 7 protein; PIG 7; PIG7; SIMPLE; Small integral membrane protein of lysosome/late endosome; TP53I7; Tumor protein p53 inducible protein 7; anti-LITAF antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	LITAF antibody detects endogenous levels of total LITAF
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	161
Applicable Applications for anti-LITAF antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human LITAF
Subcellular Location	Lysosome membrane. Associated with membranes of lysosomes.
Tissue Specificity	Ubiquitously and abundantly expressed. Expressed predominantly in the placenta, peripheral blood leukocytes, lymph nodes and spleen.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (90%), Bovine (90%), Horse (90%), Sheep (90%), Rabbit (90%), Dog (90%), Chicken (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Hela whole cell lysates, using LITAF Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA327058 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-LITAF antibody

Description: Lipopolysaccharide is a potent stimulator of monocytes and macrophages, causing secretion of tumor necrosis factor-alpha (TNF-alpha) and other inflammatory mediators. This gene encodes lipopolysaccharide-induced TNF-alpha factor, which is a DNA-binding protein and can mediate the TNF-alpha expression by direct binding to the promoter region of the TNF-alpha gene. The transcription of this gene is induced by tumor suppressor p53 and has been implicated in the p53-induced apoptotic pathway. Mutations in this gene cause Charcot-Marie-Tooth disease type 1C (CMT1C) and may be involved in the carcinogenesis of extramammary Paget's disease (EMPD). Multiple alternatively spliced transcript variants have been found for this gene.

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 downregulate 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).

Subunit Structure: Monomer (PubMed:27927196). Interacts with NEDD4 (PubMed:16118794, PubMed:27927196). Interacts (via PSAP motif) with TSG101, a component of the ESCRT-I complex (endosomal sorting complex required for transport I) (PubMed:16118794). Interacts with WWOX (PubMed:15064722). Interacts with STAM, a component of the ESCRT-0 complex; the interaction is direct (PubMed:23166352). Identified in a complex with STAM and HGS; within this complex, interacts directly with STAM, but not with HGS (PubMed:23166352). Interacts with STAT6 (PubMed:15793005).

Post-translational Modifications: Phosphorylated on tyrosine residues in response to EGF.

Similarity: The PPxY motif mediates interaction with WWOX and NEDD4. The LITAF domain is stabilized by a bound zinc ion (PubMed:27927196, PubMed:27582497). The LITAF domain contains an amphiphatic helix that mediates interaction with lipid membranes (PubMed:23166352, PubMed:27927196, PubMed:27582497). It interacts specifically with phosphatidylethanolamine lipid headgroups, but not with phosphoglycerol, phosphocholine, phosphoserine or inositolhexakisphosphate (PubMed:27927196). Belongs to the CDIP1/LITAF family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	210147505
NCBI GeneID	9516
NCBI Accession #	NP_001129944.1
NCBI GenBank Nucleotide #	NM_001136472.1
UniProt Accession #	Q99732; Q05DW0; Q9C0L6; D3DUG1; G5E9K0
Molecular Weight	Observed: 17 kDa Predicted: 18 kDa
NCBI Official Full Name	lipopolysaccharide-induced tumor necrosis factor-alpha factor isoform 1
NCBI Official Synonym Full Names	lipopolysaccharide induced TNF factor
NCBI Official Symbol	LITAF

NCBI Official Synonym Symbols	PIG7; SIMPLE; TP53I7
NCBI Protein Information	lipopolysaccharide-induced tumor necrosis factor-alpha factor
UniProt Protein Name	Lipopolysaccharide-induced tumor necrosis factor-alpha factor
UniProt Gene Name	LITAF
UniProt Synonym Gene Names	PIG72 PublicationsManual assertion based on opinion iniRef.3; LPS-induced TNF-alpha factor1 PublicationManual assertion based on opinion iniRef.2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/litaf-antibody-immunohistochemistry-western-blot-elisa/327058>