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LITAF Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21944a

Product Information

Application	WB, E
Primary Accession	Q99732
Other Accession	Q9JLJ0, P0C0T0
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB54510
Calculated MW	17107

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	This LITAF antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 31-60 amino acids from the human LITAF.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	LITAF Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

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: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.

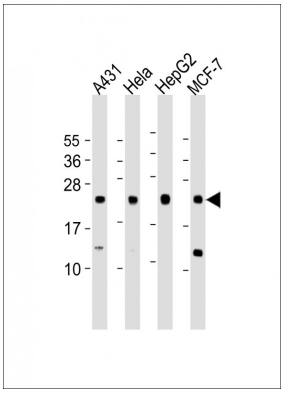
Background

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.

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).

Images



All lanes : Anti-LITAF Antibody (N-Term) at 1:1000 dilution Lane 1: A431 whole cell lysate Lane 2: Hela whole cell lysate Lane 3: HepG2 whole cell lysate Lane 4: MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 17 kDa Blocking/Dilution buffer: 5% NFDM/TBST.