LTF Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	LTF, Monoclonal Antibody
Full Product Name	LTF Mouse mAb
Product Gene Name	anti-LTF antibody
Product Synonym Names	Lactotransferrin; Lactoferrin; 3421-; Growth-inhibiting protein 12; Talalactoferrin; Lactoferricin-H; Lfcin-H; Kaliocin-1; Lactoferroxin-A; Lactoferroxin-B; Lactoferroxin-C; LTF; GIG12; LF
Clonality	Monoclonal
Isotype	IgG1
Clone Number	119CT80.1.1
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Purity/Purification	Affinity Purified
OMIM	150210
3D Structure	ModBase 3D Structure for P02788
Immunogen	This LTF Monoclonal antibody is generated from mouse immunized with LTF recombinant protein.
Cellular Localization	Cytoplasm, Nucleus, Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-LTF antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC)
Application Notes for anti-LTF antibody	WB: 1:1000 ICC: 1:25 IHC: 1:50-100
Related Product Information for anti-LTF antibody	MBS8550741 is an antibody targeting LTF. Also known as LTF Mouse mAb. Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-LTF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LTF. It may not necessarily be applicable to this product.

NCBI GI #	2104522
NCBI GeneID	4057
NCBI Accession #	AAB57795.1
UniProt Primary Accession #	P02788

UniProt Related Accession #	P02788
NCBI Official Full Name	lactoferrin, partial
NCBI Official Synonym Full Names	lactotransferrin
NCBI Official Symbol	LTF
NCBI Official Synonym Symbols	LF; HLF2; GIG12; HEL110
UniProt Protein Name	Lactotransferrin
UniProt Synonym Protein Names	Growth-inhibiting protein 12; Talalactoferrin
Protein Family	L-shaped tail fiber protein
UniProt Gene Name	LTF
UniProt Synonym Gene Names	GIG12; LF; Lactoferrin; Lfcin-H
UniProt Entry Name	TRFL_HUMAN
NCBI Protein Information	lactotransferrin
NCBI Summary for LTF	This gene is a member of the transferrin family of genes and its protein product is found in the secondary granules of neutrophils. The protein is a major iron-binding protein in milk and body secretions with an antimicrobial activity, making it an important component of the non-specific immune system. The protein demonstrates a broad spectrum of properties, including regulation of iron homeostasis, host defense against a broad range of microbial infections, anti-inflammatory activity, regulation of cellular growth and differentiation and protection against cancer development and metastasis. Antimicrobial, antiviral, antifungal and antiparasitic activity has been found for this protein and its peptides. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2014]
UniProt Comments for LTF	LTF: Transferrins are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate. Belongs to the transferrin family. 2 isoforms of the human protein are produced by alternative promoter. Protein type: EC 3.4.21.-; Secreted; Protease; Secreted, signal peptide Chromosomal Location of Human Ortholog: 3p21.31 Cellular Component: extracellular space; specific granule; cytoplasm; extracellular region; nucleus; secretory granule Molecular Function: heparin binding; protein serine/threonine kinase activator activity; protein binding; ferric iron binding; DNA binding; serine-type endopeptidase activity; iron ion binding Biological Process: negative regulation of lipopolysaccharide-mediated signaling pathway; interaction with host; ossification; positive regulation of I-kappaB kinase/NF-kappaB cascade; transcription, DNA-dependent; positive regulation of toll-like receptor 4 signaling pathway; antifungal humoral response; proteolysis; iron ion transport; humoral immune response; regulation of cytokine production; activation of NF-kappaB transcription factor; retinal homeostasis; positive regulation of osteoblast differentiation; innate immune response in mucosa; negative regulation of viral genome replication; response to host immune response; positive regulation of osteoblast proliferation; antibacterial humoral response; regulation of tumor necrosis factor production; negative regulation of viral reproduction; iron assimilation by chelation and transport; negative regulation of ATPase activity; negative regulation of apoptosis
Research Articles on LTF	**1.** We will finally summarize data on the role of the iron binding protein lactoferrin on the regulation of the ferroportin/ceruloplasmin couple and of other proteins involved in iron homeostasis in inflamed human macrophages.
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