

Rabbit anti-Human, mouse LTF Polyclonal Antibody | anti-LTF antibody

LTF Antibody

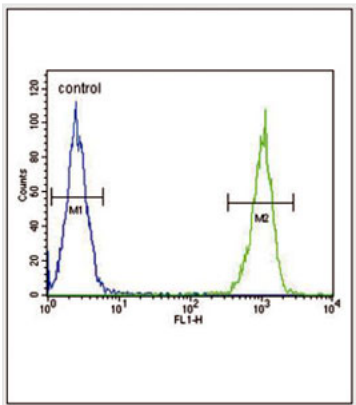
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28680	Rabbit	Human, mouse	Western Blot, ELISA, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

LTF; Polyclonal Antibody; LTF Antibody; Lactotransferrin; Lactoferrin; 3421-; Growth-inhibiting protein 12; Talalactoferrin; Lactoferricin-H; Lfcin-H; Kaliocin-1; Lactoferroxin-A; Lactoferroxin-B; Lactoferroxin-C; GIG12; LF; anti-LTF antibody

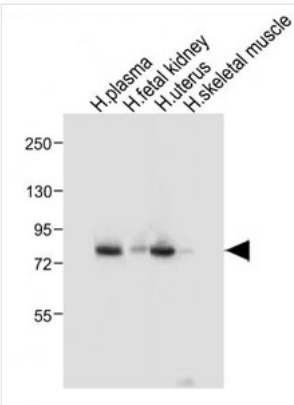
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This LTF antibody is generated from rabbits immunized with LTF recombinant protein.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Length	666
Applicable Applications for anti-LTF antibody	WB (Western Blot), ELISA, FCM/FACS (Flow Cytometry)
Application Notes	WB~~1:1000 FC~~1:10~50
Function	Transferrins are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate. Lactoferricin binds to the bacterial surface and is crucial for the bactericidal functions. Has some antiviral activity against papillomavirus infection. N-terminal region shows strong antifungal activity against C.albicans. Contains two BBXB heparin-binding consensus sequences that appear to form the predominate functional GAG-binding site. Lactoferroxins A, B and C have opioid antagonist activity. Lactoferroxin A shows preference for mu-receptors, while lactoferroxin B and C have somewhat higher degrees of preference for kappa-receptors than for mu-receptors. Isoform DeltaLf: transcription factor with antiproliferative properties and ability to induce cell cycle arrest. Binds to the DeltaLf response element found in the SKP1, BAX, DCPS, and SELENOH promoters.
Cellular Location	Isoform 1: Secreted. Cytoplasmic granule. Note=Secreted into most exocrine fluids by various endothelial cells. Stored in the secondary granules of neutrophils.
Tissue Location	High levels are found in saliva and tears, intermediate levels in serum and plasma, and low levels in urine In kidney, detected in the distal collecting tubules in the medulla but not in the cortical region or in blood vessels Detected in peripheral blood neutrophils (at protein level) Isoform 1 and isoform DeltaLf are expressed in breast, prostate, spleen, pancreas, kidney, small intestine, lung, skeletal muscle, uterus, thymus and fetal liver. Isoform 1 is expressed in brain, testis and peripheral blood leukocytes; isoform DeltaLf is barely detectable in these tissues. Isoform DeltaLf is expressed in placenta, liver and ovary; isoform 1 is barely detectable in these tissues. In kidney, isoform 1 is expressed at high levels in the collecting tubules of the medulla but at very low levels in the cortex.
Preparation and 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.



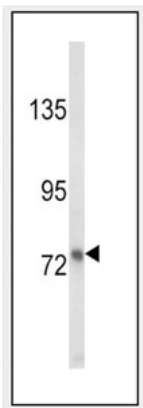
FCM (Flow Cytometry)

LTF Antibody flow cytometric analysis of MDA-MB231 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



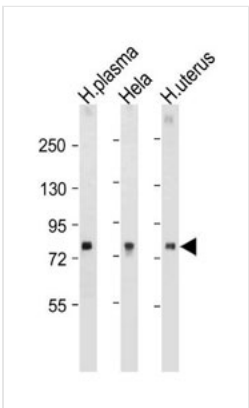
WB (Western Blot)

Western blot analysis of LTF Antibody in mouse spleen tissue lysates (35ug/lane). LTF (arrow) was detected using the purified Pab.



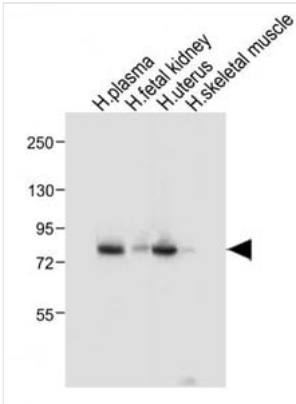
WB (Western Blot)

Western blot analysis of LTF Antibody in MDA-MB231 cell line lysates (35ug/lane). LTF (arrow) was detected using the purified Pab.



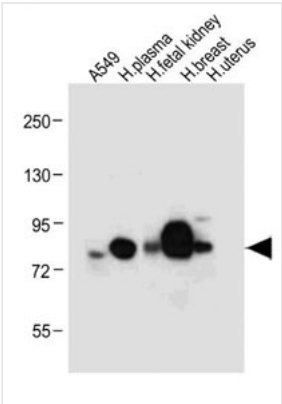
WB (Western Blot)

All lanes : Anti-LTF Antibody at 1:1000-2000 dilution Lane 1: Human plasma tissue lysate Lane 2: Hela whole cell lysate Lane 3: Human uterus tissue lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 78 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



WB (Western Blot)

All lanes : Anti-LTF Antibody at 1:1000 dilution Lane 1: Human plasma tissue lysate Lane 2: Human fetal kidney tissue lysate Lane 3: Human uterus tissue lysate Lane 4: Human skeletal muscle tissue lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 78 kDa Blocking/Dilution buffer: 5% NFDm/TBST



WB (Western Blot)

All lanes : Anti-LTF Antibody at 1:4000 dilution Lane 1: A549 whole cell lysate Lane 2: Human plasma tissue lysate Lane 3: Human fetal kidney tissue lysate Lane 4: Human breast tissue lysate Lane 5: Human uterus tissue lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 78 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-LTF antibody	LTF 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
Product Categories/Family for anti-LTF antibody	Cancer; Cardiovascular; Signal transduction
References	Willnow,T.E., et.al., J. Biol. Chem. 267 (36), 26172-26180 (1992)

NCBI AND UNIPROT INFORMATION

NCBI GI #	312433998
NCBI GeneID	4057
NCBI Accession #	NP_001186078.1; NP_002334.2
NCBI GenBank Nucleotide #	NM_001199149.1
UniProt Accession #	P02788; O00756; Q16780; Q16785; Q16786; Q16789; Q5DSM0; Q8IU92; A8K9U8; B2MV13; B7Z4X2; E7EQH5
NCBI Official Full Name	lactotransferrin isoform 2
NCBI Official Synonym Full Names	lactotransferrin
NCBI Official Symbol	LTF
NCBI Official Synonym Symbols	LF; HLF2; GIG12; HEL110
NCBI Protein Information	lactotransferrin
UniProt Protein Name	Lactotransferrin
UniProt Gene Name	LTF
UniProt Synonym Gene Names	GIG12; LF; Lactoferrin; Lfcin-H
UniProt Entry Name	TRFL_HUMAN

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/ltf-antibody-western-blot-flow-cytometry-elisa/28680>