



Lactoferrin Antigen (DAG-T1234)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

Lactoferrin (LF), also known as lactotransferrin (LTF), is a multifunctional protein of the transferrin family. Lactoferrin is a globular glycoprotein with a molecular mass of about 80 kDa that is widely represented in various secretory fluids, such as milk, saliva, tears, and nasal secretions. Lactoferrin is also present in secondary granules of PMN and is secreted by some acinar cells. Lactoferrin can be purified from milk or produced recombinantly. Human colostrum ("first milk") has the highest concentration, followed by human milk, then cow milk (150 mg/L). Lactoferrin is one of the components of the immune system of the body; it has antimicrobial activity (bacteriocide, fungicide) and is part of the innate defense, mainly at mucoses. In particular, lactoferrin provides antibacterial activity to human infants. Lactoferrin interacts with DNA and RNA, polysaccharides and heparin, and shows some of its biological functions in complexes with these ligands.

Size	0.20 mg
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Preservative	None
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GENE INFORMATION

Gene Name	LTF lactotransferrin [Homo sapiens]
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Official Symbol	LTF
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Synonyms	LTF; lactotransferrin; HLF2; talalactoferrin; neutrophil lactoferrin; growth-inhibiting protein 12; LF; GIG12;
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Entrez Gene ID	4057
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mRNA Refseq	NM_001199149
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Protein Refseq	NP_001186078
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UniProt ID	P02788
Chromosome Location	3p21.31
Pathway	Amyloids; Disease
Function	ferric iron binding; heparin binding; metal ion binding; peptidase activity; protein binding; serine-type endopeptidase activity;
References	LTF;lactotransferrin;HLF2;talalactoferrin;neutrophil lactoferrin;growth-inhibiting protein 12;LF;GIG12;NP_001186078;NM_001199149;P02788;EC 3.4.21.-;OTTHUMP00000209779;Lactoferrin;OTTHUMP00000209780;Talalactoferrin;OTTHUMP00000209781;EC 3.4.21;HGNC: 6720;Entrez Gene: 4057;Ensembl: ENSG00000012223;OMIM: 150210;UniProtKB: P02788;TRFL_HUMAN;