

Product datasheet for **AP01083HR-N**

Lactoferrin (LTF) Sheep Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC
Recommended Dilution:	ELISA: 1/50. Immunohistochemistry on frozen sections. Immunohistochemistry on paraffin sections: This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose. Recommended Positive Control: Mammary gland.
Reactivity:	Human
Host:	Sheep
Clonality:	Polyclonal
Immunogen:	Lactoferrin purified from milk.
Specificity:	This antibody recognises lactoferrin (LTF).
Formulation:	PBS, pH 7.4 containing 0.01% Thiomersal Label: HRP State: Liquid purified IgG Label: Horseradish Peroxidase
Concentration:	lot specific
Purification:	Protein G chromatography
Conjugation:	HRP
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	lactotransferrin
Database Link:	Entrez Gene 4057 Human P02788



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Background:

Lactoferrin is an 80kDa non-haem, iron-binding globular glycoprotein and member of the transferrin family present in milk and mucosal secretions, and also released from neutrophil granules during inflammation. LTF acts as a major first line defense against microbial infections, partly due to its ability to efficiently bind to and hence remove Fe³⁺ from the environment, but studies have also shown that LTF possesses bactericidal properties and proteolytic activity, capable of cleaving arginine-rich sequences within microbial proteins. Three isoforms of LTF have been identified: LTF-alpha, LTF-beta and LTF-gamma and receptors for LTF are expressed in the gastrointestinal tract, by macrophages, lymphocytes, neutrophils and platelets and also by some bacteria.

Synonyms:

LTF, LF, Lactoferrin, EC=3.4.21, Talalactoferrin