

## Polyclonal Antibody to Lactotransferrin - FITC

<b>Alternate names:</b>	EC=3.4.21, LF, LTF, Lactoferrin, Talalactoferrin
<b>Catalog No.:</b>	AP01083FC-N
<b>Quantity:</b>	1 ml
<b>Concentration:</b>	1.0mg/ml
<b>Background:</b>	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 Fe <sup>3+</sup> 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.
<b>Uniprot ID:</b>	<a href="#">P02788</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>Host:</b>	Sheep
<b>Immunogen:</b>	Lactoferrin purified from milk
<b>Format:</b>	<b>State:</b> Liquid purified IgG <b>Purification:</b> Protein G chromatography <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide <b>Label:</b> FITC – Highly purified Isomer I of fluorescein isothiocyanate. Care is taken to ensure complete removal of any free fluorescein from the final product
<b>Applications:</b>	Immunofluorescence: 1/10 - 1/100. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises lactoferrin (LTF). <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Levay, P.F. and Viljoen, M. (1995) Lactoferrin: A general review. <i>Haematologica</i> . 80: 252 - 267. 2. Hendrixson DR, Qiu J, Shewry SC, Fink DL, Petty S, Baker EN, et al. Human milk lactoferrin is a serine protease that cleaves Haemophilus surface proteins at arginine-rich sites. <i>Mol</i>

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