

## Datasheet: 5605-1000F

<b>Description:</b>	SHEEP ANTI HUMAN LACTOFERRIN:FITC
<b>Specificity:</b>	LACTOFERRIN
<b>Format:</b>	FITC
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	1 ml

## Product Details

**RRID** AB\_877516

**Applications** This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	■			
Western Blotting			■	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**Target Species** Human

**Species Cross Reactivity** Reacts with: Dog  
**N.B.** Antibody reactivity and working conditions may vary between species.

**Product Form** Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525

**Antiserum Preparation** Antisera to human lactoferrin were raised by repeated immunisations of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography.

**Buffer Solution** Phosphate buffered saline

**Preservative Stabilisers** 0.09% Sodium Azide (NaN<sub>3</sub>)

**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

**Immunogen** Human lactoferrin purified from milk

**External Database  
Links**

**UniProt:**

[P02788](#) [Related reagents](#)

**Entrez Gene:**

[4057](#) LTF [Related reagents](#)

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**Synonyms**

LF

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**Specificity**

**Sheep anti Human lactoferrin antibody** recognizes human lactoferrin (LTF), an ~80 kDa 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.

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**Further Reading**

1. Levay, P.F. & Viljoen, M. (1995) Lactoferrin: a general review. [Haematologica. 80 \(3\): 252-67.](#)
2. Hendrixson, D.R. *et al.* (2003) Human milk lactoferrin is a serine protease that cleaves Haemophilus surface proteins at arginine-rich sites. [Mol Microbiol. 47 \(3\): 607-17.](#)

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**Storage**

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

18 months from date of despatch.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory**

For research purposes only

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