Datasheet: 5605-1000G

Product Details

**Description:** SHEEP ANTI HUMAN LACTOFERRIN

**Specificity:** LACTOFERRIN

**Format:** Purified

**Product Type:** Polyclonal Antibody

**Isotype:** Polyclonal IgG

**Quantity:** 1 ml

**RRID** AB_2139216

**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.

<table>
<thead>
<tr>
<th>Application Type</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
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<tr>
<td>Immunohistology - Paraffin (1)</td>
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<tr>
<td>ELISA</td>
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<td>1/200 - 1/2000</td>
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</table>

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 the appropriate negative/positive controls.

(1) 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.

**Target Species**

Human

**Species Cross Reactivity**

Reacts with: Dog

**N.B.** Antibody reactivity and working conditions may vary between species.

**Product Form**

Purified IgG - liquid

**Preparation**

Purified IgG prepared by affinity chromatography on Protein G

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide (NaN₃)

**Approx. Protein Concentrations**

IgG concentration 5.0mg/ml

**Immunogen**

Human lactoferrin purified from milk
**External Database Links**

UniProt: [P02788](https://www.uniprot.org/uniprot/P02788)  
Related reagents

**Entrez Gene:**  
4057  LTF  Related reagents

**Synonyms**  
LF

**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 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.

**Histology Positive Control Tissue**  
Human mammary gland

**Further Reading**

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

**Guarantee**  
18 months from date of despatch.

**Health And Safety Information**  
Material Safety Datasheet documentation #10040 available at:  

**Regulatory**  
For research purposes only

**Related Products**

**Recommended Secondary Antibodies**  
Donkey Anti Sheep IgG (STAR88...), DyLight®488, FITC, HRP  
Rabbit Anti Sheep IgG (H/L) (5184-2304...) Biotin

**Recommended Useful Reagents**  
ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)  
ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025C)