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](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunohistology - Frozen</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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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
- Entrez Gene: 4057

**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)