Datasheet: 5605-1000P

**Product Details**

**Description:** SHEEP ANTI HUMAN LACTOFERRIN:HRP

**Specificity:** LACTOFERRIN

**Format:** HRP

**Product Type:** Polyclonal Antibody

**Isotype:** Polyclonal IgG

**Quantity:** 1 ml

**RRID** AB_877517

**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>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tr>
<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin (1)</td>
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<td>ELISA</td>
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<td>Western Blotting</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 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

**Product Form** Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid

**Antiserum Preparation** Antiseras 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** 0.01% Thiomersal

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

**Immunogen** Human lactoferrin purified from milk
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\(^{3+}\) 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

- 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


Regulatory

- For research purposes only

Related Products

**Recommended Useful Reagents**

- AbGUARD® HRP STABILIZER PLUS (BUF052A)
- AbGUARD® HRP STABILIZER PLUS (BUF052B)
- AbGUARD® HRP STABILIZER PLUS (BUF052C)
- TMB CORE (BUF056A)
- TMB CORE+ (BUF062A)
- TMB SIGNAL+ (BUF054A)