

## Datasheet: 5602-5008

<b>Description:</b>	SHEEP ANTI HUMAN LACTALBUMIN
<b>Specificity:</b>	ALPHA-LACTALBUMIN
<b>Format:</b>	Serum
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	1 ml

## Product Details

**RRID** AB\_618544

### 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
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
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 the appropriate negative/positive controls.

**Target Species** Human

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

**Product Form** Serum - liquid

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

**Immunogen** Lactalbumin from human milk.

### External Database Links

**UniProt:**  
[P00709](#) [Related reagents](#)

**Entrez Gene:**  
[3906](#) LALBA [Related reagents](#)

**Synonyms** LYZL7

**Specificity** **Sheep anti Human lactalbumin antibody** detects human alpha-lactalbumin, a small Ca<sup>2+</sup> binding protein, the predominant protein found in human milk. Alpha-lactalbumin forms the regulatory subunit of the lactose synthase complex, with beta 1,4-galactosyltransferase forming the catalytic component. Lactose synthase catalyzes and regulates the biosynthesis of lactose in the lactating mammary gland.

A folding variant of alpha-lactalbumin called HAMLET (human alpha-lactalbumin made lethal to tumor cells), has been shown to selectively kill tumor cells and control tumor progression *in vivo*.

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**References** 1. Gustafsson, L. *et al.* (2005) HAMLET kills tumor cells by apoptosis: structure, cellular mechanisms, and therapy. [J Nutr. 135 \(5\): 1299-303.](#)

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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. 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 #10081 available at:  
10081: <https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Donkey Anti Sheep IgG (STAR88...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[FITC](#), [HRP](#)

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

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