

Datasheet: 5602-5008

**BATCH NUMBER 161588**

<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

### 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. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### 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](#)

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**Synonyms**

LYZL7

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**RRID**

AB\_618544

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**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**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee**

12 months from date of despatch

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10081 available at:  
<https://www.bio-rad-antibodies.com/SDS/5602-5008>  
10081

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

**North & South  
America**

Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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