

## 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

### 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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts weakly with: Bovine <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Serum - liquid
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen</b>	Lactalbumin from human milk
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P00709</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3906</a>   LALBA   <a href="#">Related reagents</a></p>
<b>Synonyms</b>	LYZL7
<b>Specificity</b>	<b>Sheep anti Human lactalbumin antibody</b> 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: 1299-1303.](#)

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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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**Shelf Life** 18 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/uploads/MSDS/10081.pdf>

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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](#)

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

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