

Datasheet: 5602-5008

BATCH NUMBER 161637

Description:	SHEEP ANTI HUMAN LACTALBUMIN
Specificity:	ALPHA-LACTALBUMIN
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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 (NaN₃)

Immunogen

Lactalbumin from human milk.

**External Database
Links**

UniProt:

[P00709](#) [Related reagents](#)

Entrez Gene:

[3906](#) LALBA [Related reagents](#)

Synonyms

LYZL7

RRID

AB_618544

Specificity

Sheep anti Human lactalbumin antibody detects human alpha-lactalbumin, a small Ca²⁺ 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*.

References

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

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.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

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

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

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