

LALBA Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14834c**Specification**

LALBA Antibody (Center) Blocking Peptide - Product Information

Primary Accession [P00709](#)

LALBA Antibody (Center) Blocking Peptide - Additional Information

Gene ID 3906

Other Names

Alpha-lactalbumin, Lactose synthase B protein, Lysozyme-like protein 7, LALBA, LYZL7

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

LALBA Antibody (Center) Blocking Peptide - Protein Information

Name LALBA

Synonyms LYZL7

Function

Regulatory subunit of lactose synthase, changes the substrate specificity of galactosyltransferase in the mammary gland making glucose a good acceptor substrate for this enzyme. This enables LS to synthesize lactose, the major carbohydrate component of milk. In other tissues, galactosyltransferase transfers galactose onto the N- acetylglucosamine of the oligosaccharide chains in glycoproteins.

Cellular Location

Secreted.

Tissue Location

Mammary gland specific. Secreted in milk.

LALBA Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

LALBA Antibody (Center) Blocking Peptide - Images

LALBA Antibody (Center) Blocking Peptide - Background

This gene encodes alpha-lactalbumin, a principal protein of milk. Alpha-lactalbumin forms the regulatory subunit of the lactose synthase (LS) heterodimer and beta1,4-galactosyltransferase (beta4Gal-T1) forms the catalytic component. Together, these proteins enable LS to produce lactose by transferring galactose moieties to glucose. As a monomer, alpha-lactalbumin strongly binds calcium and zinc ions and may possess bactericidal or antitumor activity. A folding variant of alpha-lactalbumin, called HAMLET, likely induces apoptosis in tumor and immature cells.

LALBA Antibody (Center) Blocking Peptide - References

Tolin, S., et al. FEBS J. 277(1):163-173(2010) Rosner, H.I., et al. J. Mol. Biol. 394(2):351-362(2009) Wang, J., et al. J. Dairy Sci. 91(12):4466-4476(2008) Ramboarina, S., et al. J. Am. Chem. Soc. 130(46):15318-15326(2008) Morozova, O.B., et al. J Phys Chem B 109(12):5912-5918(2005)