10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

LALBA Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14834c

Product Information

Application	WB, IHC-P, E
Primary Accession	P00709
Other Accession	NP_002280.1
Reactivity	Human, Rat, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34611
Calculated MW	16225
Antigen Region	39-68

Additional Information

Gene ID	3906
Other Names	Alpha-lactalbumin, Lactose synthase B protein, Lysozyme-like protein 7, LALBA, LYZL7
Target/Specificity	This LALBA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 39-68 amino acids from the Central region of human LALBA.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	LALBA Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

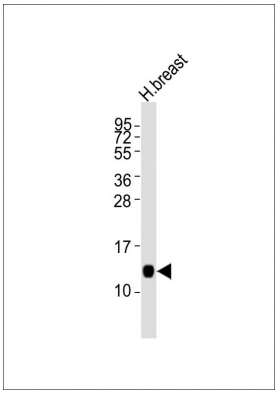
Background

This gene encodes alpha-lactalbumin, a principal protein of milk. Alpha-lactalbumin forms the regulatory subunit of the lactose synthase (LS) heterodimer and beta 1,4-galactosyltransferase (beta4Gal-T1) forms the catalytic component. Together, these proteins enable LS to produce lactose by transfering 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.

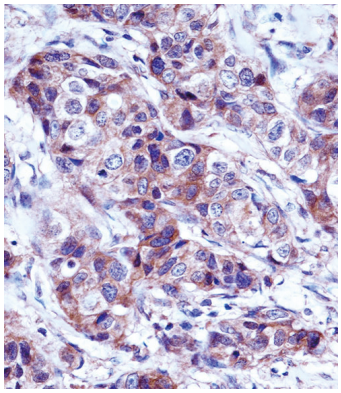
References

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)

Images



Anti-LALBA Antibody (Center)at 1:2000 dilution + human breast lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 16 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



LALBA Antibody (Center) (AP14834c)immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of LALBA Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.