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Lactalbumin, Human Milk recombinant protein

LYZL7
Catalog # PBV10910r

Specification

Lactalbumin, Human Milk recombinant protein - Product info

Primary Accession	P00709
Calculated MW	**14 kDa KDa**

Lactalbumin, Human Milk recombinant protein - Additional Info

Gene ID	**3906**
Gene Symbol	**LYZL7**
Other Names	
LYZL7	
Gene Source	**Human**
Source	**Human Milk. Prepared from Human Milk shown to be non-reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA required tests.**
Assay&Purity	**SDS-PAGE; ≥95%**
Assay2&Purity2	**N/A;**
Recombinant	**No**
Target/Specificity	
Lactalbumin	

Application Notes
Use deionized water

Format
Lyophilized

Storage
4°C; Lyophilized from de-ionized water

Lactalbumin, Human Milk recombinant protein - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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Lactalbumin, Human Milk recombinant protein - Images

Lactalbumin, Human Milk recombinant protein - Background

α-Lactalbumin is an important whey protein in cow's milk, and is also present in the milk of many other mammalian species. In primates, alpha-lactalbumin expression is upregulated in response to the hormone prolactin and increases the production of lactose. α-Lactalbumin forms the regulatory subunit of the lactose synthase (LS) heterodimer and β-1,4-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. When formed into a complex with Gal-T1, a galactosyltransferase, α-lactalbumin, enhances the enzyme's affinity for glucose by about 1000 times, and inhibits the ability to polymerize multiple galactose units. This gives rise to a pathway for forming lactose by converting Gal-TI to Lactose synthase.

Lactalbumin, Human Milk recombinant protein - References

Hall L.,et al.Nucleic Acids Res. 10:3503-3515(1982).
Hall L.,et al.Biochem. J. 242:735-742(1987).
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Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.