

Rabbit Anti-Beta-casein antibody

SL10032R

Product Name:Beta-caseinChinese Name:β-酪蛋白抗体Alias:Beta-casein; Casoparan; Antioxidant peptide; Casohypotensin; CASB; CASB_BC Casein beta; CSN 2; Csn2; CASB_BOVIN.Organism Species:RabbitClonality:PolyclonalReact Species:Cow,Sheep,ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.Molecular weight:24kDaCellular localization:Secretory proteinForm:Lyophilized or LiquidConcentration:Img/mlimmunogen:KLH conjugated synthetic peptide derived from cow Beta-casein:16-100/224Lsotype:IgGPurification:affinity purified by Protein A	VIN;
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Purification: affinity purified by Protein A	
Storage Buffer: 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.	
Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized	
antibody is stable at room temperature for at least one month and for greater than a	year
Storage: when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of	
antibody the antibody is stable for at least two weeks at 2-4 °C.	
PubMed: PubMed	
Milk proteins are crucial for the development of all newborn mammals and casein	
constitute the major proteins in mammalian milk. b- and k-caseins are the only case	eins
present in human milk. The b-casein/k-casein ratio is higher in colostrum than in	
Product Detail: transitional and mature milk and is related to a better digestibility of colostrum cases	
micelles by the neonate during the first days of life. Human b-casein-encoding ger	e
(Bca) contains a highly phosphorylated site, which is responsible for the calcium-	
binding capacity of b-casein. A common set of transcription factors are required for	r the

expression of b-casein. Multiple binding sites for Stat5, C/EBPb (CCAAT/enchancer-binding protein) and several half-sites for glucocorticoid receptor (GR) are identified in the distal human enhancer of the b-casein gene. b-casein gene transcription is regulated primarily by a composite response element (CoRE), which integrates signaling from the lactogenic hormones PRL, insulin and hydrocortisone in mammary epithelial cells. NFkB functions as a negative regulator of b-casein gene expression during pregnancy by interfering with Stat5 tyrosine phosphorylation

Function:

Important role in determination of the surface properties of the casein micelles. Casoparan acts as a macrophage activator, increasing the phagocytic activity of macrophages and peroxide release from macrophages. It also acts as a bradykinin-potentiating peptide.

Casohypotensin acts as a bradykinin-potentiating peptide. Induces hypotension in rats. Acts as a strong competitive inhibitor of endo-oligopeptidase A.

Antioxidant peptide has antioxidant activity.

Subcellular Location:

Secreted.

Tissue Specificity:

Mammary gland specific. Secreted in milk.

Similarity:

Belongs to the beta-casein family.

SWISS:

P02666

Gene ID: 281099

Database links:

Entrez Gene: 1447Human

Entrez Gene: 281099 Bovin

Entrez Gene: 443391 Sheep

Omim: 115460Human

SwissProt: P05814Human

SwissProt: P02666Bovin

Unigene: 2242Human

Important Note:
This product as supplied is intended for research use only, not for use in human,
therapeutic or diagnostic applications.

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