SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Beta casein antibody

Catalog Number: SL23551R

FOR RESEARCH USE ONLY

[DATASHEET]

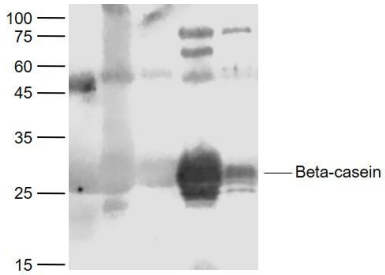
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Beta casein
Immunogen:	KLH conjugated synthetic peptide derived from human Beta casein: 1-100/226
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Cow,Goat
Predicted MW.:	24kDa
Subcellular Location:	Secretory protein
Background:	Milk proteins are crucial for the development of all newborn mammals and caseins constitute the major proteins in mammalian milk. b- and k-caseins are the only caseins present in human milk. The b-casein/k-casein ratio is higher in colostrum than in transitional and mature milk and is related to a better digestibility of colostrum casein micelles by the neonate during the first days of life. Human b-casein-encoding gene (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 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

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	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. **Database links:** **Entrez Gene:** 1447 Human **Entrez Gene:** 281099 Bovin **Entrez Gene:** 443391 Sheep Omim: 115460 Human **SwissProt:** P05814 Human **SwissProt:** P02666 Bovin **Unigene:** 2242 Human

[VALIDATION IMAGES]



Sample:
Lane 1: Milk (Goat) Lysate at 2 ug
Lane 2: Milk (Cow) Lysate at 30 ug
Lane 3: Milk (Cow) Lysate at 3 ug
Lane 4: Milk (Human) Lysate at 30 ug
Lane 5: Milk (Human) Lysate at 3 ug
Primary: Anti-Beta-casein (SL23551R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 25-29 kD
Observed band size: 25-29 kD

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