SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-Beta casein antibody

SL0466R

Product Name	Beta casein
Chinese Name	β-酪蛋白抗体
Alias	Beta-casein; CASB; CASB_SHEEP; Casein beta; CSN 2; Csn2.
Research Area	Cell biology immunology
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Cow,Goat(predicted:Sheep)
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.
Theoretical molecular weight	23kDa
Cellular localization	Secretory protein
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from sheep Beta-casein: 151-222/222
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	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 phosphorylation.

Function:
Important role in determination of the surface properties of the casein micelles.

Subcellular Location:
Secreted.

Tissue Specificity:
Mammary gland specific. Secreted in milk.

Similarity:
Belongs to the beta-casein family.

SWISS:
P11839

Gene ID:
443391

Database links:

Entrez Gene: 443391 Sheep

Entrez Gene: 1447 Human

Omim: 115460 Human

SwissProt: P05814 Human

Unigene: 2242 Human

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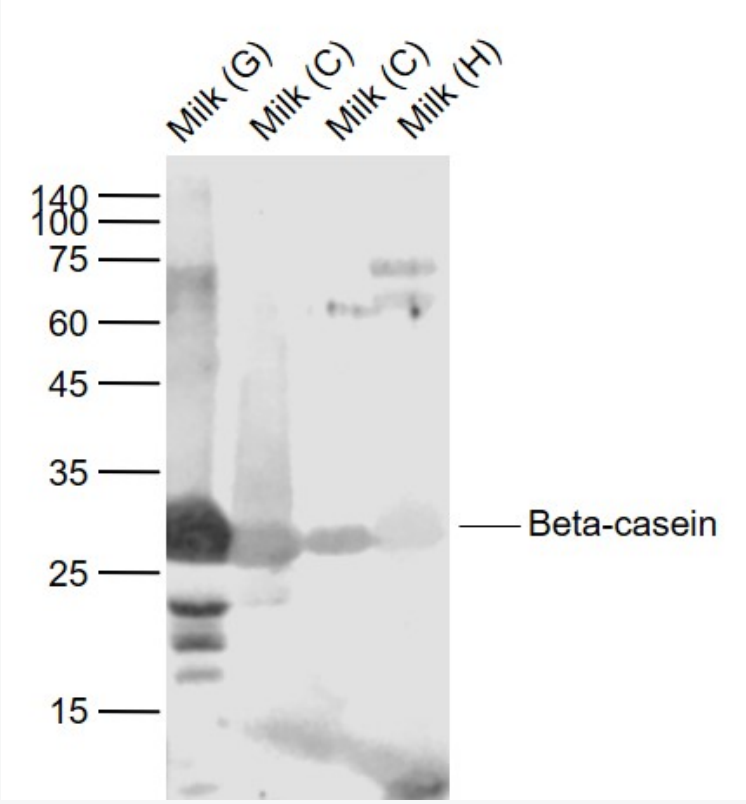
β-酪蛋白常在乳腺表达，山羊、绵羊同源
分子量：25kDa

Product Picture



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

Primary: Anti-Beta-casein (SL0466R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 25-29 kD

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Observed band size: 25-29 kD