

Anti-Beta-casein Polyclonal Antibody

Product Details

Ig Type: IgG
Reactivity: Human,Cow,Goat (predicted:Sheep)
Molecular Weight: Theoretical: 23 kDa. Actual: 25-29 kDa.
Purification: Protein A purified

Applications

Sample:

Lane 1: Milk (Goat) Lysate at 2 μ g

Lane 2: Milk (Cow) Lysate at 30 μ g

Lane 3: Milk (Cow) Lysate at 3 μ g

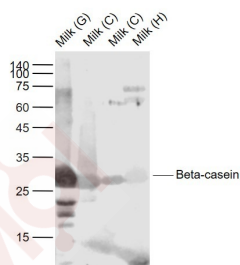
Verified Activity: Lane 4: Milk (Human) Lysate at 30 μ g

Primary: Anti-Beta-casein (TMAB-00227) at 1/1000 dilution

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

Predicted band size: 23 kDa

Observed band size: 25-29 kDa



Application: WB

Recommended WB: 1:500-2000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: sheep Beta-casein

Antigen Species: Sheep

Gene ID: 443391

Synonyms: Casein beta;Csn2;CSN 2;CASB; β -casein

Biology Area: Pol II Transcription,Transcription Factors,Coat Proteins

Research 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/enhancer-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

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