



Datasheet for ABIN1385095  
**anti-CSN2 antibody (AA 16-100)**



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### Overview

Quantity:	100 µL
Target:	CSN2
Binding Specificity:	AA 16-100
Reactivity:	Human, Cow, Goat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CSN2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from bovine Beta-casein
Isotype:	IgG
Cross-Reactivity:	Cow, Goat, Human
Predicted Reactivity:	Sheep
Purification:	Purified by Protein A.

### Target Details

Target:	CSN2
Alternative Name:	beta casein ( <a href="#">CSN2 Products</a> )
Background:	Synonyms: Beta-casein, CSN2

## Target Details

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Background: 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.

Gene ID: 281099

UniProt: [P02666](#)

## Application Details

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Application Notes: WB 1:300-5000  
ELISA 1:500-1000  
IHC-F 1:100-500

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

## Publications

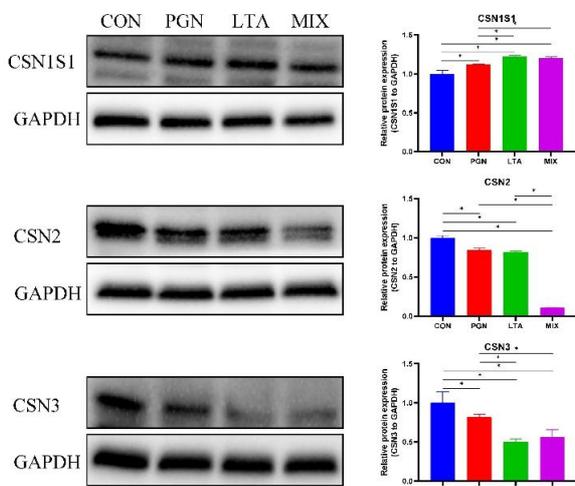
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Product cited in: Wu, Chen, Sun, Dong, Wang, Chen, Dong: "PGN and LTA from Staphylococcus aureus Induced Inflammation and Decreased Lactation through Regulating DNA Methylation and Histone H3 Acetylation in Bovine Mammary Epithelial Cells." in: **Toxins**, Vol. 12, Issue 4, (2021) ([PubMed](#)).

Chu, Zhao, Feng, Zhang, Liu, Cheng, Li, Shen, Cao, Li, Min: "MicroRNA-126 participates in lipid metabolism in mammary epithelial cells." in: **Molecular and cellular endocrinology**, Vol. 454, pp. 77-86, (2017) ([PubMed](#)).

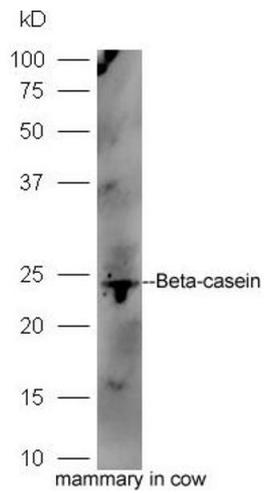
He, McMahon, McKeon, Brandon: "Development of a novel immuno-PCR assay for detection of ricin in ground beef, liquid chicken egg, and milk." in: **Journal of food protection**, Vol. 73, Issue 4, pp. 695-700, (2010) ([PubMed](#)).

Images



Western Blotting

**Image 1.** The protein expression of the three caseins (CSN1S1, CSN2, and CSN3). The total protein was isolated to examine casein expression by Western Blot analysis, and the glyceraldehyde-3-phosphate dehydrogenase (GAPDH) was selected as a housekeeping protein. Quantitation of blots is representative of three independent experiments. Data represent the mean and standard deviation (n = 6), and the asterisk indicates statistical difference (\* p < 0.05) between the indicated columns, based on one-way analysis of variance and Duncan's range test. CSN1S1, αS1-casein, CSN2, β-casein, CSN3, κ-casein, CON, control group, PGN, peptidoglycan group, LTA, lipoteichoic acid group, MIX, PGN + LTA group. - figure provided by CiteAb. Source: PMID32283626



### Western Blotting

**Image 2.** Bovine mammary tissue lysates probed with Rabbit Anti-Beta-casein Polyclonal Antibody, Unconjugated (ABIN1385095) at 1:300 overnight at 4 °C. Followed by a conjugated secondary antibody at 1:5000 for 90 min at 37 °C.