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Datasheet for ABIN1045126  
**Casein Protein (CASA) (full length)**

### Overview

Quantity:	1 mg
Target:	Casein (CASA)
Protein Characteristics:	full length
Origin:	Human
Source:	Human
Protein Type:	Native
Application:	ELISA, Western Blotting (WB)

### Product Details

Purification:	purified from human milk
Purity:	> 95 %(SDS-PAGE)

### Target Details

Target:	Casein (CASA)
Alternative Name:	casein ( <a href="#">CASA Products</a> )

**Background:** Casein contains a fairly high number of proline residues, which do not interact. There are also no disulfide bridges. As a result, it has relatively little tertiary structure. It is relatively hydrophobic, making it poorly soluble in water. It is found in milk as a suspension of particles called "casein micelles" which show only limited resemblance with surfactant-type micellae in a sense that the hydrophilic parts reside at the surface and they are spherical. However, in sharp contrast to surfactant micelles, the interior of a casein micelle is highly hydrated. The caseins in

## Target Details

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the micelles are held together by calcium ions and hydrophobic interactions. Several models account for the special conformation of casein in the micelles (Dalgleish, 1998). One of them proposes the micellar nucleus is formed by several submicelles, the periphery consisting of microvellosities of kappa-casein (Walstra, 1979, Lucey, 2002). Another model suggests the nucleus is formed by casein-interlinked fibrils (Holt, 1992). Finally, the most recent model (Horne, 1998) proposes a double link among the caseins for gelling to take place. All three models consider micelles as colloidal particles formed by casein aggregates wrapped up in soluble kappa-casein molecules.

## Application Details

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Comment: Full length native Human casein

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Buffer: Tris pH8.0

Storage: -20 °C