

Datasheet for ABIN728518

anti-Casein antibody[Go to Product page](#)**1** Image**4** Publications

Overview

Quantity:	100 µL
Target:	Casein (CASA)
Reactivity:	Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Casein antibody is un-conjugated
Application:	ELISA, Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)), Flow Cytometry (FACS)

Product Details

Immunogen:	Casein protein from bovine milk
Isotype:	IgG
Cross-Reactivity:	Cow, Human, Mouse
Predicted Reactivity:	Cow
Purification:	Purified by Protein A.

Target Details

Target:	Casein (CASA)
Alternative Name:	Casein (CASA Products)
Background:	Synonyms: NULL

Target Details

Background: Casein is the name for a family of related phosphoproteins. These proteins are commonly found in mammalian milk, making up 80% of the proteins in cow milk and between 20% and 45% of the proteins in human milk. Casein has a wide variety of uses, from being a major component of cheese, to use as a food additive, to a binder for safety matches. As a food source, casein supplies amino acids; carbohydrates; and two inorganic elements, calcium and phosphorus. Casein from bovine milk is a phosphoprotein. There are four main types of casein which make up approximately 80% of the total protein in bovine milk: α -s1 casein, α -s2 casein, β -casein, and κ -casein. Casein is proposed to be the main protective constituent in milk.

Application Details

Application Notes: WB 1:100-1000
ELISA 1:500-1000
IHC-P 1:100-500
IF(IHC-P) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 μ g/ μ L

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

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: 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

Product cited in: Zhen, Zhang, Yuan, Qu, Yu, Gao, Qiu: "DEAD-box helicase 6 (DDX6) is a new negative regulator for milk synthesis and proliferation of bovine mammary epithelial cells." in: **In vitro cellular & developmental biology. Animal**, Vol. 54, Issue 1, pp. 52-60, (2018) ([PubMed](#)).

Wang, Wang, Yang, Liu, Jiang: "Protein 14-3-3 ϵ Regulates Cell Proliferation and Casein Synthesis via PI3K-mTOR Pathway in Dairy Cow Mammary Epithelial Cells." in: **Journal of agricultural and food chemistry**, Vol. 66, Issue 45, pp. 12000-12008, (2018) ([PubMed](#)).

Zhang, Chen, Zhen, Ao, Yuan, Gao: "Annexin A2 positively regulates milk synthesis and proliferation of bovine mammary epithelial cells through the mTOR signaling pathway." in: **Journal of cellular physiology**, Vol. 233, Issue 3, pp. 2464-2475, (2017) ([PubMed](#)).

Blaauw, Jones, Nielsen: "Utilizing immunomarking techniques to track Halyomorpha halys (Hemiptera: Pentatomidae) movement and distribution within a peach orchard." in: **PeerJ**, Vol. 4, pp. e1997, (2016) ([PubMed](#)).

Images

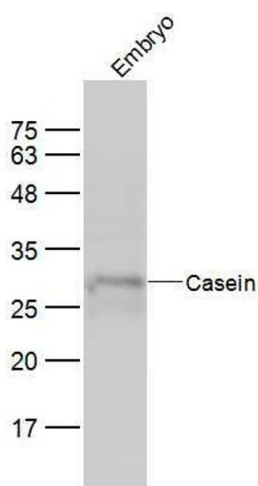


Image 1. Mouse embryo lysates probed with Casein Polyclonal Antibody, Unconjugated at 1:300 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.