

Product datasheet

Native Cow S100 beta protein ab198633

1 Image

Description

Product name	Native Cow S100 beta protein
Purity	> 95 % SDS-PAGE.
Expression system	Native
Accession	P02638
Protein length	Full length protein
Animal free	No
Nature	Native
Species	Cow
Sequence	MSELEKAVVALIDVFHQYSGREGDKHKLKSELKELINNE LSHFLEEIKE QEVVDKVMETL DSDGDGECDFQEFMAFVAMITTACHEFFEHE
Predicted molecular weight	6 kDa
Amino acids	1 to 92
Additional sequence information	Prepared from bovine brain tissue from animals under 30 months of age at a USDA inspected facility. Animals were inspected ante and post mortem and found free of infectious diseases.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab198633** in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.50 Constituents: 0.79% Tris HCl, 0.29% Sodium chloride, 0.001% DTT
Reconstitution	We suggest the addition of de-ionized H2O to the original volume, followed by gentle swirling and/or vortexing to ensure adequate homogenization. If further dilution is required, we suggest

using the lyophilization buffer

General Info

Function

Weakly binds calcium but binds zinc very tightly-distinct binding sites with different affinities exist for both ions on each monomer. Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites. Binds to and initiates the activation of STK38 by releasing autoinhibitory intramolecular interactions within the kinase. Interaction with AGER after myocardial infarction may play a role in myocyte apoptosis by activating ERK1/2 and p53/TP53 signaling.

Tissue specificity

Although predominant among the water-soluble brain proteins, S100 is also found in a variety of other tissues.

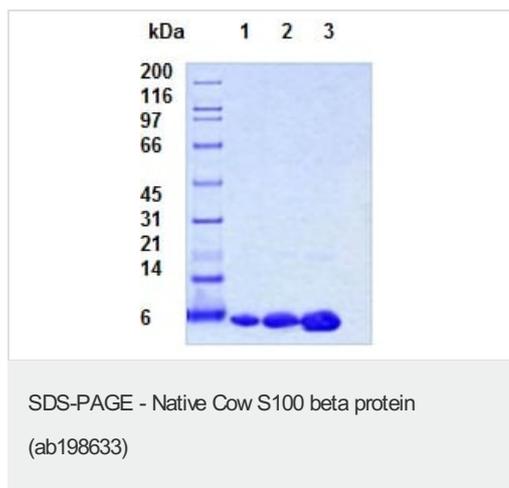
Sequence similarities

Belongs to the S-101 family.
Contains 2 EF-hand domains.

Cellular localization

Cytoplasm. Nucleus.

Images



SDS PAGE analysis of ab198633 under reduced and heated conditions:

Lane 1: 5 µg

Lane 2: 10 µg

Lane 3: 20 µg

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