

## Datasheet for ABIN6699575 **CTNNA1 Protein (GST tag)**



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### Overview

Quantity:	20 µg
Target:	CTNNA1
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTNNA1 protein is labelled with GST tag.
Application:	Western Blotting (WB)

### Product Details

Purpose:	Catenin alpha recombinant protein recombinant protein-GST fusion protein
Purification:	Recombinant full-length human Catenin α was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >95% by densitometry.
Purity:	>95%

### Target Details

Target:	CTNNA1
Alternative Name:	CTNNA1 ( <a href="#">CTNNA1 Products</a> )
Background:	Synonyms: CTNNA1, CAP102, FLJ36832, Catenin alpha-1, Alpha E-catenin, Cadherin-associated protein, Renal carcinoma antigen NY-REN-13 Background: Catenin α is a novel actin-binding and -bundling protein. Catenin α is responsible

## Target Details

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for organizing and tethering actin filaments at the zones of E-cadherin-mediated cell-cell contact (1). Monomeric Catenin  $\alpha$  can bind strongly to E-Cadherin- $\beta$ -Catenin, whereas the dimer preferentially binds actin filaments. Different molecular conformations are associated with these different binding states, indicating that Catenin  $\alpha$  is an allosteric protein. Catenin  $\alpha$  directly regulates actin-filament organization by suppressing Arp2/3-mediated actin polymerization, likely by competing with the Arp2/3 complex for binding to actin filaments (2). Catenin  $\alpha$  Protein is ideal for investigators involved in Signaling Proteins, Transcription Proteins, Cancer, Cardiovascular Disease, Invasion/Metastasis, Neurobiology, PKA/PKC Pathway, and WNT Signaling research.

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NCBI Accession: [NM\\_001903](#)

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Pathways: [Regulation of Muscle Cell Differentiation, Cell-Cell Junction Organization, Maintenance of Protein Location](#)

## Application Details

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Application Notes: Western\_Blot\_Dilution: User Optimized  
Application\_Note: Catenin  $\alpha$  Protein is suitable for use in Western Blot. Expect a band approximately ~ 123 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Concentration: 0.2  $\mu\text{g}/\mu\text{L}$

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Buffer: Catenin  $\alpha$  Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

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Storage: -80 °C

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Storage Comment: Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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Expiry Date: 12 months