

Recombinant Human CTNNA1,GST-tagged

Cat. No. CTNNA1-1440H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human Catenin alpha was expressed by baculovirus in <i>Sf9</i> insect cells using a N-terminal GST tag. MW = 123kDa.
Species	Human
Source	Sf9 Cells
Description	Catenin α is a novel actin-binding and -bundling protein. Catenin α is responsible for organizing and tethering actin filaments at the zones of E-cadherin-mediated cell-cell contact. Monomeric Catenin α can bind strongly to E-Cadherin- β -Catenin, whereas the dimer preferentially binds actin filaments. Different molecular conformations are associated with these different binding states, indicating that Catenin α is an allosteric protein. Catenin α 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.
Sequence	Full-length.
Applications	Western Blot.
Storage And Stability	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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GENE INFORMATION

Gene Name	CTNNA1 catenin (cadherin-associated protein), alpha 1, 102kDa [Homo sapiens]
Synonyms	CTNNA1; catenin (cadherin-associated protein), alpha 1, 102kDa; CAP102; FLJ36832; FLJ52416; Catenin alpha-1; Cadherin-associated protein; Alpha E-catenin; NY-REN-13 antigen
Gene ID	1495
mRNA Refseq	NM_001903
Protein Refseq	NP_001894
MIM	116805
UniProt ID	P35221
Chromosome Location	5q31.2
Pathway	Adherens junction; Arrhythmogenic right ventricular cardiomyopathy (ARVC); Endometrial cancer; Leukocyte transendothelial migration; Pathways in cancer; Tight junction; Cell-cell adhesion systems
Function	cadherin binding; protein binding; structural molecule activity; vinculin binding

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