Catenin Alpha 1 (CTNNalpha1) ELISA Kit for Donkey

PRODUCT OVERVIEW

Product Name	Catenin Alpha 1 (CTNNalpha1), ELISA Kit
Full Product Name	Donkey Catenin Alpha 1 ELISA Kit
Product Gene Name	CTNNalpha1 elisa kit
Species Reactivity	Donkey
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	100,071 Da
OMIM	116805
3D Structure	ModBase 3D Structure for P35221
Related Product Information for CTNNalpha1 elisa kit	MBS098545 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Catenin Alpha 1 (CTNNalpha1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CTNNalpha1. The ELISA analytical biochemical technique of the MBS098545 kit is based on CTNNalpha1 antibody-CTNNalpha1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CTNNalpha1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CTNNalpha1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of CTNNalpha1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTNNalpha1. It may not necessarily be applicable to this product.

NCBI GI #	55770844
NCBI GeneID	1495
NCBI Accession #	NP_001894.2
UniProt Primary Accession #	P35221
UniProt Secondary Accession #	Q12795; Q8N1C0
UniProt Related Accession #	P35221
GenBank Nucleotide #	NM_001903.3
NCBI Official Full Name	catenin alpha-1 isoform 1
NCBI Official Synonym Full Names	catenin (cadherin-associated protein), alpha 1, 102kDa
NCBI Official Symbol	CTNNA1
NCBI Official Synonym Symbols	CAP102
UniProt Protein Name	Catenin alpha-1
UniProt Synonym Protein Names	Alpha E-catenin; Cadherin-associated protein; Renal carcinoma antigen NY-REN-13
Protein Family	Catenin

UniProt Gene Name	CTNNA1
UniProt Entry Name	CTNA1_HUMAN
NCBI Protein Information	catenin alpha-1; alpha-catenin; alphaE-catenin; alpha E-catenin; alpha-E-catenin; renal carcinoma antigen NY-REN-13; cadherin-associated protein,102kDa
UniProt Comments for CTNNalpha1	CTNNA1: Associates with the cytoplasmic domain of a variety of cadherins. The association of catenins to cadherins produces a complex which is linked to the actin filament network, and which seems to be of primary importance for cadherins cell-adhesion properties. Can associate with both E- and N-cadherins. Originally believed to be a stable component of E-cadherin/catenin adhesion complexes and to mediate the linkage of cadherins to the actin cytoskeleton at adherens junctions. In contrast, cortical actin was found to be much more dynamic than E-cadherin/catenin complexes and CTNNA1 was shown not to bind to F-actin when assembled in the complex suggesting a different linkage between actin and adherens junctions components. The homodimeric form may regulate actin filament assembly and inhibit actin branching by competing with the Arp2/3 complex for binding to actin filaments. May play a crucial role in cell differentiation. Monomer and homodimer; the monomer preferentially binds to CTNNB1 and the homodimer to actin. Binds MLLT4 and F-actin. Possible component of an E-cadherin/catenin adhesion complex together with E-cadherin/CDH1 and beta-catenin/CTNNB1 or gamma- catenin/JUP; the complex is located to adherens junctions. The stable association of CTNNA1 is controversial as CTNNA1 was shown not to bind to F-actin when assembled in the complex. Alternatively, the CTNNA1-containing complex may be linked to F- actin by other proteins such as LIMA1. Interacts with ARHGAP21 and with AJUBA. Interacts with LIMA1. Expressed ubiquitously in normal tissues. Belongs to the vinculin/alpha-catenin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Actin-binding Chromosomal Location of Human Ortholog: 5q31.2 Cellular Component: focal adhesion; lamellipodium; plasma membrane; acrosome; catenin complex; intercellular junction; zonula adherens; cytosol; actin cytoskeleton Molecular Function: actin filament binding; protein binding; cadherin binding; gamma-catenin binding; beta-catenin binding; structural molecule activity; vinculin binding Biological Process: intercellular junction assembly and maintenance; apical junction assembly; gap junction assembly; protein heterooligomerization; axon regeneration; male gonad development; establishment and/or maintenance of cell polarity; actin filament organization; odontogenesis of dentine-containing teeth; muscle cell differentiation; negative regulation of neuroblast proliferation; ovarian follicle development; response to estrogen stimulus; positive regulation of smoothened signaling pathway; positive regulation of muscle cell differentiation; vascular endothelial growth factor receptor signaling pathway; cell adhesion; aging
Research Articles on CTNNalpha1	**1.** CTNNA1 methylation is a recurrent event but has no influence on prognosis in acute myeloid leukemia
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/ctnnalpha1-donkey-elisa-kits/catenin-alpha-1/98545