E-Cadherin (CDH13) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	E-Cadherin (CDH13), ELISA Kit
Full Product Name	Human E-Cadherin (CDH13) ELISA Kit
Product Gene Name	CDH13 elisa kit
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Detection Range	0.625ng/ml-20ng/ml
Sensitivity	0.1ng/ml
Preparation and Storage	Store all reagents at 2-8 degree C
Inter-assay Precision	Inter-assay CV (%) is less than 15%. [CV(%) = SD/mean ×100]. All CV% should be compared by concentration, not compared by OD values.
Intra-assay Precision	Intra-assay CV (%) is less than 15%.
Molecular Weight	90,942 Da
OMIM	Z13009 mRNA
Related Product Information for CDH13 elisa kit	Background/Introduction: This Quantitative Sandwich ELISA kit is for lab reagent/research use only, not for drug, household, therapeutic or test applications! This kit is intended to be used to determine the level of ECDH13 (hereafter termed "analyte") in undiluted original Human serum, plasma or tissue homogenates samples. For other sample types please contact tech support to determine compatibility with this assay. This kit is not suitable for assaying non-biological sources of substances.
Other Notes	Small volumes of CDH13 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.
Searchable Terms for CDH13 purchase	MBS9390743 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the E-Cadherin (CDH13) 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 CDH13. The ELISA analytical biochemical technique of the MBS9390743 kit is based on CDH13 antibody-CDH13 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CDH13 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CDH13. 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(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDH13. It may not necessarily be applicable to this product.

NCBI GI #	1617084
NCBI GeneID	999
NCBI Accession #	CAA84586.1
UniProt Secondary Accession #	Q13799; Q14216; Q15855; Q16194; Q4PJ14; Q9UII8; A8K1U7
UniProt Related Accession #	P12830
NCBI Official Full Name	E-cadherin, partial

NCBI Official Synonym Full Names	cadherin 1
NCBI Official Symbol	CDH1
NCBI Official Synonym Symbols	UVO; CDHE; ECAD; LCAM; Arc-1; CD324
UniProt Protein Name	Cadherin-1
UniProt Synonym Protein Names	CAM 120/80; Epithelial cadherin; E-cadherin
Protein Family	Cadherin
UniProt Gene Name	CDH1
UniProt Synonym Gene Names	CDHE; UVO; E-cadherin
NCBI Protein Information	cadherin-1
NCBI Summary for CDH13	This gene encodes a classical cadherin of the cadherin superfamily. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion protein is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Mutations in this gene are correlated with gastric, breast, colorectal, thyroid and ovarian cancer. Loss of function of this gene is thought to contribute to cancer progression by increasing proliferation, invasion, and/or metastasis. The ectodomain of this protein mediates bacterial adhesion to mammalian cells and the cytoplasmic domain is required for internalization. This gene is present in a gene cluster with other members of the cadherin family on chromosome 16. [provided by RefSeq, Nov 2015]
UniProt Comments for CDH13	CDH1: a single-pass type I membrane protein, and calcium dependent cell adhesion proteins. It is a ligand for integrin alpha-E/beta-7, and it colocalizes with DLG7 at sites of cell-cell contact in intestinal epithelial cells. Anchored to actin microfilaments through association with alpha-, beta- and gamma-catenin. Sequential proteolysis induced by apoptosis or calcium influx, results in translocation from sites of cell-cell contact to the cytoplasm. Involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells. Defects in CDH1 are involved in dysfunction of the cell-cell adhesion system, triggering cancer invasion (gastric, breast, ovary, endometrium and thyroid) and metastasis. Has a potent invasive suppressor role. Protein type: Cell adhesion; Membrane protein, integral; Motility/polarity/chemotaxis; Ubiquitin ligase Chromosomal Location of Human Ortholog: 16q22.1 Cellular Component: actin cytoskeleton; apical junction complex; catenin complex; cell junction; cell-cell adherens junction; cortical actin cytoskeleton; cytoplasm; extracellular region; flotillin complex; focal adhesion; integral to membrane; internal side of plasma membrane; lamellipodium; lateral plasma membrane; perinuclear region of cytoplasm; plasma membrane; trans-Golgi network Molecular Function: ankyrin binding; beta-catenin binding; cell adhesion molecule binding; gamma-catenin binding; glycoprotein binding; GTPase activating protein binding; protein binding Biological Process: cell-cell adhesion; extracellular matrix disassembly; extracellular matrix organization and biogenesis; negative regulation of cell-cell adhesion; positive regulation of transcription factor import into nucleus; positive regulation of transcription, DNA-dependent Disease: Breast Cancer; Endometrial Cancer; Gastric Cancer, Hereditary Diffuse; Ovarian Cancer; Prostate Cancer
Research Articles on CDH13	**1.** Study of E-cadherin mediated, intercellular binding kinetics, provide quantitative evidence for confinement-enabled cadherin interactions within intercellular junctions.
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