

Cadherin-11 Recombinant Protein | CDH11 recombinant protein

Recombinant Human Cadherin-11 Protein (His Tag), HPLC-verified

CATALOG # AAA259283	HOST HEK293 Cells	REACTIVITY Human
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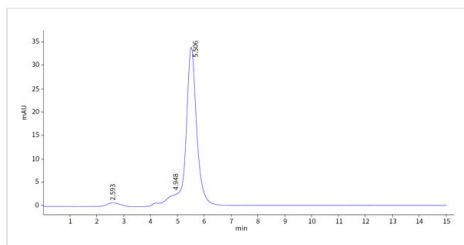
PRODUCT SYNONYMS

Cadherin-11; Recombinant Human Cadherin-11 Protein (His Tag); HPLC-verified; Human Cadherin-11 Protein (His Tag); cadherin 11; type 2; OB-cadherin (osteoblast); CAD11 Protein; Human; CDHOB Protein; ESWs Protein; OB Protein; OSF-4 Protein; TBHS2 Protein; CDH11 recombinant protein

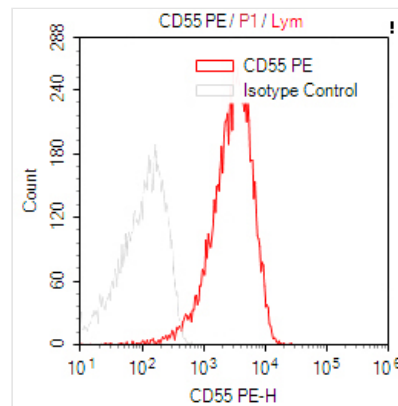
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Reactivity	Human
Purity/Purification	>= 90% as determined by SDS-PAGE. >= 90% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile 50mM Tris, 100mM NaCl, 3mM CaCl ₂ , 10% Trehalose, 0.02% Tween20, pH 8.0. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Gly54-Thr617
Tag	C-His
Predicted N Terminal	Gly 54
Endotoxin	< 1.0 EU perug of the protein as determined by the LAL method
Protein Construction	A DNA sequence encoding the Human CDH11 (NP_001788)(Gly54-Thr617) was expressed with a polyhistidine tag at the C-terminus.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for CDH11 recombinant protein	A mesenchymal marker, Cadherin-11's (CDH11) gene is situated on chromosome 16q22.1. CDH11 is a type II atypical cadherin, an integral membrane protein that mediates calcium-dependent, cell-cell homophilic interactions. Defined by a large extracellular N-domain, a single membrane-spanning domain, a small C-cytoplasmic domain, and the lack of an HAV cell adhesion recognition sequence, CDH11 expression is increased in fibrotic diseases such as systemic sclerosis, as well as in chronic inflammatory arthritis. CDH11 leads to promoter methylation inactivation, which can induce cancer cell apoptosis and suppress invasion through Wnt/beta-catenin, AKT/Rho A, and NF-kappaB signaling pathways. CDH11 mRNA and protein was expressed in most invasive breast cancer cell lines tested but not in non-invasive cell lines, suggesting that CDH11 may be a marker for aggressive, invasive tumor subsets.
Product Categories/Family for CDH11 recombinant protein	Canonical Wnt Pathway
References	1.Che. X. e. al. Researc. progres. i. th. rol. an. mechanis. o. Cadherin-1. i. differen. diseases. . Cancer. 202. Ja. 1;12(4):1190-1199. doi. 10.7150/jca.52720. PMID. 33442417. 2.Sfikakis. Petro. P. e. al.Cadherin-1. a. . therapeuti. targe. i. chronic. inflammator. rheumati. diseases. Clinica. Immunology. 2017.doi:10.1016/j.clim.2017.01.00. 3.Thandiw. Chavula,Sara. To,Sandee. K. Agarwal. Cadherin-1. an. It. Rol. i. Tissu. Fibrosis.Cell. Tissue. Organs. 2023.https://doi.org/10.1159/00052535. 4.Satriy. PB. e. al. Cadheri. 1. Inhibitio. Downregulate. beta-catenin. Deactivate. th. Canonica. WN. Signallin. Pathwa. an. Suppresse. th. Cance. Ste. Cell-Lik. Phenotyp. o. Tripl. Negativ. Breas. Cancer. . Cli. Med. 201. Ja. 27;8(2):148. doi. 10.3390/jcm8020148. PMID. 30691241.

NCBI AND UNIPROT INFORMATION

NCBI GI #	16306532
NCBI GeneID	1009
NCBI Accession #	NP_001788
NCBI GenBank Nucleotide #	NM_001797
UniProt Accession #	P55287; Q15065; Q15066; Q9UQ93; Q9UQ94; A8K5D6; A8MZC8; B7WP28
Molecular Weight	76,457 Da
NCBI Official Full Name	cadherin-11 preproprotein
NCBI Official Synonym Full Names	cadherin 11, type 2, OB-cadherin (osteoblast)
NCBI Official Symbol	CDH11
NCBI Official Synonym Symbols	OB; CAD11; CDHOB; OSF-4
NCBI Protein Information	cadherin-11
UniProt Protein Name	Cadherin-11
UniProt Gene Name	CDH11
UniProt Synonym Gene Names	OB-cadherin
UniProt Entry Name	CAD11_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.