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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Cadherin17 (CDH17), Fc-fusion (lgG1), Avi-Tag, Biotin-Labeled Recombinant

Catalog: 102267
Lot: 240612

Product Information

Description:	Recombinant human cadherin17 (CDH17), encompassing amino acids 23-787. This construct contains a C-terminus IgG1 Fc domain, followed by an Avi-Tag™. The recombinant protein was enzymatically biotin-labeled using Avi-tag™ and affinity purified.
Background:	CHD17 (cadherin 17), also known as LI (liver-intestine)-cadherin is a unique member of the cadherin superfamily of proteins, as it has seven instead of the five typical cadherin domains. It is a calcium-dependent membrane-associated glycoprotein normally expressed on epithelial cells of the small intestine and colon, where it regulates intercellular adhesion. Upregulation of this protein is found in gastric cancer, colorectal and pancreatic cancer, amongst others. CHD17 has become a therapeutic target of interest, with studies using monoclonal antibodies, ADC (antibody drug conjugates) and CAR-T cells resulting in promising outcomes. More recently nanobodies, with their smaller size and higher potential to penetrate tumors, have also been developed. A bispecific T cell engager, ARB202, has shown great promise *in vitro*. CHD17 is thus a target with great potential and future studies will continue to open new avenues of treatment around it.
Species	Human
Construct:	Cadherin17 (23-787-Fc (lgG1)-Avi)-(Biotin)
Concentration:	1.49 mg/ml
Expression System:	HEK293
Purity:	≥90%
Format:	Aqueous buffer solution.
Formulated In:	40 mM Tris-HCl pH 8.0, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol
MW:	113.8 kDa + glycans
Glycosylation:	This protein runs at a higher MW by SDS-PAGE due to glycosylation.
Genbank Accession:	NM_004063.4
Label:	This protein is enzymatically biotinylated using Avi-Tag™ technology. Biotinylation confirmed to be ≥90%.
Stability:	At least 6 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Assay Conditions:	This protein was tested using an Alpha-LISA™ binding assay. 10 µl reaction mix containing E-cadherin in 1x PP-02 Buffer was incubated with Cadherin17, Fc-fusion (IgG1), Avi-Tag, Biotin-Labeled Recombinant for one hour at room temperature. Protein A acceptor beads were added, and the reaction was incubated for 30 minutes, followed by the addition of Nickel Donor beads. A-counts were measured. The net A-count signal is proportional to E-cadherin-Cadherin17 binding.
Applications:	Useful for avidin-pulldown and binding assays.

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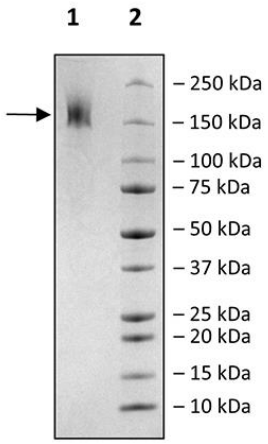
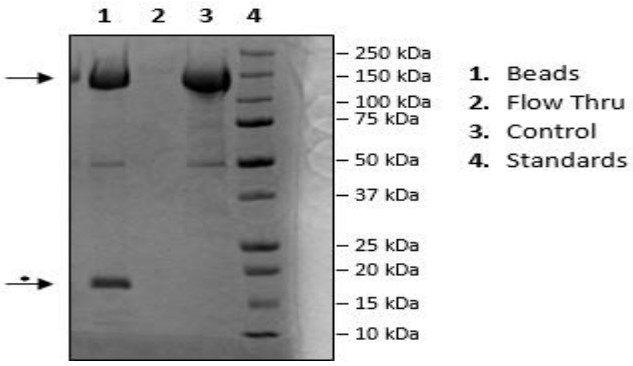
Quality Control Data

4-20% SDS-PAGE Coomassie Staining



Biotin-Avidin Pulldown



Cadherin17 binding to E-cadherin