

DESCRIPTION

Target:	CDH17
Target aliases:	Cadherin 17, HPT-1, Intestinal Peptide-Associated Transporter HPT-1
Fc isotype:	IgG2a
Membrane proteome specificity:	Monospecific for 6,000 membrane proteins tested
Species reactivity:	Human (Others untested)
Extracellular epitope:	Yes
Fc modifications:	C-terminal Avitag ¹ , disabled Fc- γ receptor binding ²
Source:	Recombinant CHO expression; purified by Protein A chromatography
Formulation:	Endotoxin Free PBS pH 7.4, sterile-filtered
Concentration:	1 mg/ml

1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc- γ receptor binding site to minimize non-specific antibody binding.

CDH17 TARGET INFORMATION

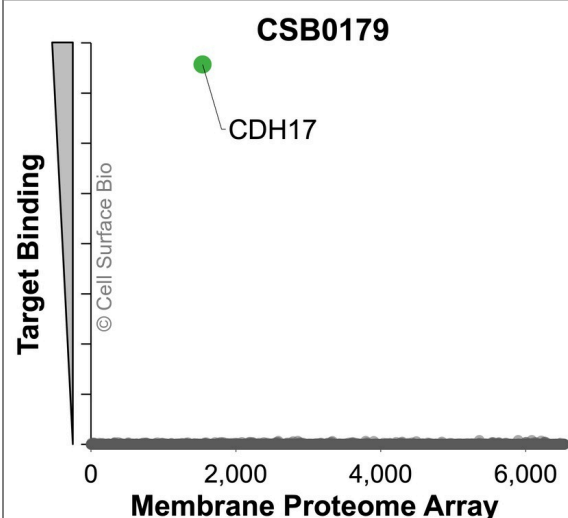
Cadherin-17 is a non-classical member of the cadherin superfamily involved in calcium-dependent cell adhesion. It features seven extracellular cadherin domains and a single-pass transmembrane segment but lacks the conserved cytoplasmic domain required for catenin binding, distinguishing it from classical cadherins. CDH17 is mainly expressed in the gastrointestinal tract, where it facilitates homophilic cell-cell adhesion and contributes to epithelial cohesion. It does not have a confirmed role in intracellular signaling pathways. (NCBI Gene: 1015, UniProtKB/Swiss-Prot: Q12864) Other names: Cadherin 17, HPT-1, Intestinal Peptide-Associated Transporter HPT-1

SHIPPING AND STORAGE

Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA

Membrane Proteome Specificity



The specificity of CDH17 Monoclonal Antibody (CSB0179) was tested on the Membrane Proteome Array™ and shown to be specific for CDH17.

The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies and other protein ligands.

Applications	Conditions	Recommended concentration
Flow Cytometry, Extracellular	Live, Unpermeabilized	1 µg/ml

HEK-293F cells transiently transfected with CDH17 were stained with CDH17 Monoclonal Antibody (CSB0179) (green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with CDH17 Monoclonal Antibody (CSB0179) (blue).

Applications	Conditions	Recommended concentration
Immunofluorescence, Extracellular	Fixed 4% paraformaldehyde	1 µg/ml

(Left) JS-1 cells transiently transfected CDH17 were stained with CDH17 Monoclonal Antibody (CSB0179) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) JS-1 cells transiently transfected with an empty control vector stained with CDH17 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with CDH17 and stained with control MAb.

Applications

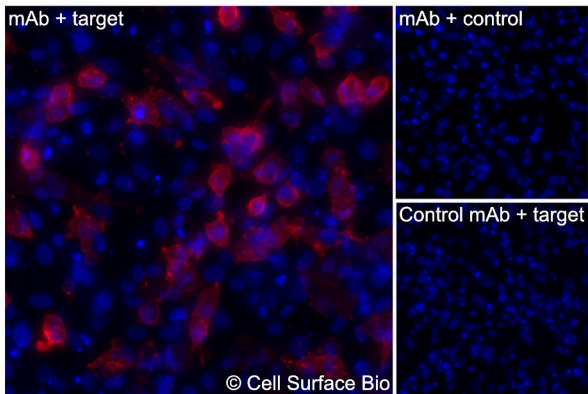
Immunofluorescence, Intracellular

Conditions

Fixed 4 % paraformaldehyde,
Permeabilized 0.1% Triton X-100

Recommended concentration

1 µg/ml



(Left) JS-1 cells transiently transfected CDH17 were permeabilized and stained with CDH17 Monoclonal Antibody (CSB0179) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) JS-1 cells transiently transfected with an empty control vector stained with CDH17 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with {{target}} and stained with control MAb.