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Recombinant Human CDH3/P-cadherin Protein

Catalog No.: RP01491 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	1001	P22223

Tags
C-His

Synonyms
CDH3;CDHP;HJMD;PCAD

Product Information

Source	Purification
HEK293 cells	≥ 85 % as determined by SDS-PAGE.

Calculated MW	Observed MW
60.86 kDa	70-80 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

Cadherin-3 （also known as P-cadherin）is a classical cell-to-cell adhesion molecule with a homeostatic function in several normal tissues. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. In humans, cadherin-3 is only detected in a few organs. However, its overexpression is strongly associated with a poor prognosis in some solid tumors including breast, lung and pancreatic cancers.

Basic Information

Description
Recombinant Human CDH3/P-cadherin Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp108-Gly654) of human CDH3/Cadherin-3 (Accession #NP_001784.2) fused with a 6×His tag at the C-terminus.

Bio-Activity
Measured by the ability of the immobilized protein to support the adhesion of A431 human epithelial carcinoma cells. When 1×105 cells/well are added to rhP-CAD/Fc Chimera coated plates (10 μg/mL with 100 μL/well), approximately 50-60% will adhere after 1.5 hours at 37° C.

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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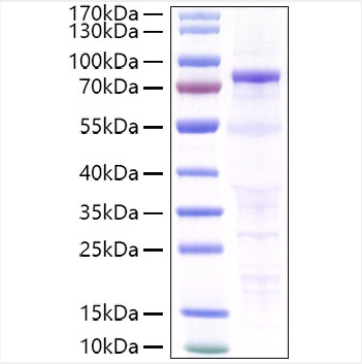
Validation Data



Recombinant Human CDH3/P-cadherin Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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