Anti-Human VE Cadherin Antibody [PSH02-61] - BSA and Azide free (Capture)

HA721838

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Cap)
Molecular Wt:	Predicted band size: 87.5 kDa
Clone number:	PSH02-61

Description: VE-cadherin is a member of the cadherin superfamily that is located in a six-cadherin cluster in a region on the long arm of chromosome 16 and is involved in loss of heterozygosity events in breast and prostate cancer. VE-cadherin protein is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Functioning as a classic cadherin by imparting to cells the ability to adhere in a homophilic manner, VE-cadherin may play an important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions. An alternative splice variant has been described but the full length sequence of VE-cadherin has not been determined.

Immunogen: Recombinant protein within Human VE-cadherin aa 48-599 (P33151).

Positive control: Recombinant Human VE Cadherin protein (HA210635).

Subcellular location: Human VE-cadherin aa 48-599 (P33151).

Database links: SwissProt: P33151 Human

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH02-62] to Human VE Cadherin (Detector) (HA721839) and recombinant standard Human VE Cadherin (HA210635) as the standard. The reference range value is 0.63-153.09 ng/ml.

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

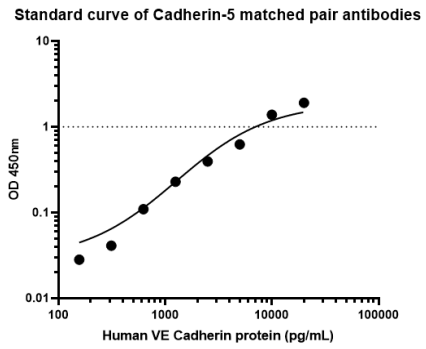

Fig1: Sandwich ELISA analysis of human Cadherin-5 matched pair antibodies

Elisa assay was performed by coating wells of a 96-well plate with 50 µl per well of capture antibody (HA721838) diluted in carbonate/bicarbonate buffer, at a concentration of 2 µg/mL overnight at 4℃. Wells of the plate were washed, blocked with 150 µl 0.05% tween-20 1%BSA blocking buffer, and incubated with serial diluted Human Cadherin-5 protein (HA210635) starting from 20000 pg/ml to 0 pg/ml and detect antibody [PSH02-62] - Biotin (0.2 µg/ml) for 1 hour at 30℃ with shaking. Then the plate was washed and incubated with 50 µl per well of SA-HRP for 0.5 hour at 30℃ with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

Background References

1. Shimoyama Y., Tsujimoto G., Kitajima M., Natori M. Identification of three human type-II classic cadherins and frequent heterophilic interactions between different subclasses of type-II classic cadherins. Biochem. J. 349:159-167 (2000)
2. Lampugnani M.G., Orsenigo F., Rudini N., Maddaluno L., Boulday G., Chapon F., Dejana E. CCM1 regulates vascular-lumen organization by inducing endothelial polarity. J. Cell Sci. 123:1073-1080 (2010)
3. Brasch J., Harrison O.J., Ahlsen G., Carnally S.M., Henderson R.M., Honig B., Shapiro L. Structure and binding mechanism of vascular endothelial cadherin: a divergent classical cadherin. J. Mol. Biol. 408:57-73 (2011)