

Rabbit K Cadherin/CDH6 Polyclonal Antibody | anti-CDH6 antibody

Anti-K Cadherin/CDH6 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125770	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

K Cadherin/CDH6; Polyclonal Antibody; Anti-K Cadherin/CDH6 Antibody; CDH6; Cadherin-6; Kidney cadherin; K-cadherin; cadherin 6; anti-CDH6 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for K Cadherin/CDH6 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
Applicable Applications for anti-CDH6 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human K Cadherin/CDH6 recombinant protein (Position: N153-H424).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of PC-3 cells using anti-K Cadherin/CDH6 antibody (AAA125770). Overlay histogram showing PC-3 cells stained with AAA125770 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-K Cadherin/CDH6 Antibody (AAA125770, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of K Cadherin/CDH6 using anti-K Cadherin/CDH6 antibody (AAA125770). K Cadherin/CDH6 was detected in paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-K Cadherin/CDH6 Antibody (AAA125770) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of K Cadherin/CDH6 using anti-K Cadherin/CDH6 antibody (AAA125770). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates Lane 2: human A549 whole cell lysates Lane 3: human U2OS whole cell lysates Lane 4: human U-87MG whole cell lysates Lane 5: human A431 whole cell lysates Lane 6: rat lung tissue lysates Lane 7: mouse lung tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-K Cadherin/CDH6 antigen affinity purified polyclonal antibody (Catalog # AAA125770) at 0.5 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for K Cadherin/CDH6 at approximately 88KD. The expected band size for K Cadherin/CDH6 is at 88KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CDH6 antibody	Cadherin-6 is a protein that in humans is encoded by the CDH6 gene. This gene encodes a member of the cadherin superfamily. Cadherins are membrane glycoproteins that mediate homophilic cell-cell adhesion and play critical roles in cell differentiation and morphogenesis. The encoded protein is a type II cadherin and may play a role in kidney development as well as endometrium and placenta formation. Decreased expression of this gene may be associated with tumor growth and metastasis.
References	- Chalmers, I. J., Hofler, H., Atkinson, M. J. Mapping of a cadherin gene cluster to a region of chromosome 5 subject to frequent allelic loss in carcinoma. Genomics 57: 160-163, 1999. - Shimoyama, Y., Gotoh, M., Terasaki, T., Kitajima, M., Hirohashi, S. Isolation and sequence analysis of human cadherin-6 complementary DNA for the full coding sequence and its expression in human carcinoma cells. Cancer Res. 55: 2206-2211, 1995. - Suzuki, S., Sano, K., Tanihara, H. Diversity of the cadherin family: evidence for eight new cadherins in nervous tissue. Cell Regul. 2: 261-270, 1991.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4826673
NCBI GeneID	1004
NCBI Accession #	NP_004923
NCBI GenBank Nucleotide #	NM_004932
UniProt Accession #	P55285; Q9BWS0; A8K5H5
Molecular Weight	73,864 Da
NCBI Official Full Name	cadherin-6 preproprotein
NCBI Official Synonym Full Names	cadherin 6, type 2, K-cadherin (fetal kidney)
NCBI Official Symbol	CDH6
NCBI Official Synonym Symbols	CAD6; KCAD
NCBI Protein Information	cadherin-6
UniProt Protein Name	Cadherin-6
UniProt Gene Name	CDH6
UniProt Synonym Gene Names	K-cadherin

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/k-cadherin-cdh6-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125770>