

Rabbit OB Cadherin/CDH11 Polyclonal Antibody | anti-CDH11 antibody

Anti-OB Cadherin/CDH11 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125724	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

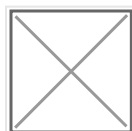
PRODUCT SYNONYMS

OB Cadherin/CDH11; Polyclonal Antibody; Anti-OB Cadherin/CDH11 Antibody; CDH11; Cadherin-11; OSF-4; Osteoblast cadherin; OB-cadherin; cadherin 11; anti-CDH11 antibody

PRODUCT SPECIFICATIONS

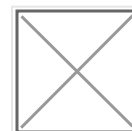
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for OB Cadherin/CDH11 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
Applicable Applications for anti-CDH11 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human OB Cadherin/CDH11 recombinant protein (Position: K371-S796).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit () for IHC(P).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of PC-3 cells using anti-OB Cadherin/CDH11 antibody (AAA125724). Overlay histogram showing PC-3 cells stained with AAA125724 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-OB Cadherin/CDH11 Antibody (AAA125724, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 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.



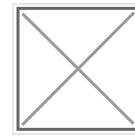
IHC (Immunohistochemistry)

Figure 3. IHC analysis of OB Cadherin/CDH11 using anti-OB Cadherin/CDH11 antibody (AAA125724). OB Cadherin/CDH11 was detected in paraffin-embedded section of human liver 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-OB Cadherin/CDH11 Antibody (AAA125724) 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.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of OB Cadherin/CDH11 using anti-OB Cadherin/CDH11 antibody (AAA125724). OB Cadherin/CDH11 was detected in paraffin-embedded section of human prostate 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-OB Cadherin/CDH11 Antibody (AAA125724) 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 OB Cadherin/CDH11 using anti-OB Cadherin/CDH11 antibody (AAA125724). 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 PC-3 whole cell lysates Lane 2: rat brain tissue lysates Lane 3: mouse brain 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-OB Cadherin/CDH11 antigen affinity purified polyclonal antibody (Catalog # AAA125724) 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 OB Cadherin/CDH11 at approximately 120KD. The expected band size for OB Cadherin/CDH11 is at 120KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CDH11 antibody	Cadherin-11 is a protein that in humans is encoded by the CDH11 gene. This gene encodes a type II classical cadherin from the cadherin superfamily, integral membrane proteins that mediate calcium-dependent cell-cell adhesion. Mature cadherin proteins are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small, highly conserved C-terminal cytoplasmic domain. Type II (atypical) cadherins are defined based on their lack of a HAV cell adhesion recognition sequence specific to type I cadherins. Expression of this particular cadherin in osteoblastic cell lines, and its upregulation during differentiation, suggests a specific function in bone development and maintenance.
References	<ol style="list-style-type: none">1. Kremmidiotis G, Baker E, Crawford J, Eyre HJ, Nahmias J, Callen DF (Aug 1998). "Localization of human cadherin genes to chromosome regions exhibiting cancer-related loss of heterozygosity". Genomics. 49 (3): 467-71.2. Vogt L, Schrimpf SP, Meskenaite V, Frischknecht R, Kinter J, Leone DP, Ziegler U, Sonderegger P (2001). "Calsyntenin-1, a proteolytically processed postsynaptic membrane protein with a cytoplasmic calcium-binding domain". Mol. Cell. Neurosci. 17 (1): 151-66.

NCBI AND UNIPROT INFORMATION

NCBI GI #	16306532
NCBI GeneID	1009
NCBI Accession #	NP_001788.2
NCBI GenBank Nucleotide #	NM_001797.2
UniProt Accession #	P55287 ; Q15065 ; Q15066 ; Q9UQ93 ; Q9UQ94 ; A8K5D6 ; A8MZC8 ; B7WP28
Molecular Weight	87,965 Da
NCBI Official Full Name	cadherin-11 preproprotein
NCBI Official Synonym Full Names	cadherin 11, type 2, OB-cadherin (osteoblast)
NCBI Official Symbol	CDH11
NCBI Official Synonym Symbols	OB; CAD11; CDHOB; OSF-4
NCBI Protein Information	cadherin-11
UniProt Protein Name	Cadherin-11
UniProt Gene Name	CDH11
UniProt Synonym Gene Names	OB-cadherin
UniProt Entry Name	CAD11_HUMAN

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/ob-cadherin-cdh11-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125724>