

Anti-K Cadherin Antibody [JE40-27]

HA722277



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, IF-Tissue
Molecular Wt:	Predicted band size: 88 kDa
Clone number:	JE40-27

Description: Cadherin-6 is a protein that in humans is encoded by the CDH6 gene. This gene encodes a type II classical cadherin from the cadherin superfamily. The encoded membrane protein is a calcium dependent cell-cell adhesion glycoprotein composed of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Cadherins mediate cell-cell binding in a homophilic manner, contributing to the sorting of heterogeneous cell types and the maintenance of orderly structures such as epithelium. Strong transcriptional expression of this gene has been observed in hepatocellular and renal carcinoma cell lines, suggesting a possible role in metastasis and invasion.

Immunogen: Synthetic peptide within Human K Cadherin/CDH6 aa 750-790.

Positive control: Jurkat cell lysate, A549 cell lysate, 293T cell lysate, HepG2 cell lysate, human kidney tissue lysate, mouse kidney tissue lysate, rat kidney tissue lysate, human kidney tissue, mouse kidney tissue, rat kidney tissue.

Subcellular location: Cell membrane.

Database links: SwissProt: P55285 Human | P97326 Mouse | P55280 Rat

Recommended Dilutions:

WB	1:5,000
IHC-P	1:5,000-1:10,000
IF-Tissue	1:500-1:2,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

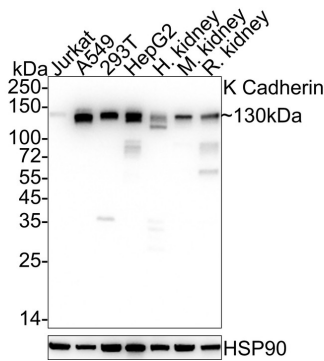


Fig1: Western blot analysis of K Cadherin on different lysates with Rabbit anti-K Cadherin antibody (HA722277) at 1/5,000 dilution.

Lane 1: Jurkat cell lysate (20 µg/Lane)

Lane 2: A549 cell lysate (20 µg/Lane)

Lane 3: 293T cell lysate (20 µg/Lane)

Lane 4: HepG2 cell lysate (20 µg/Lane)

Lane 5: Human kidney tissue lysate (40 µg/Lane)

Lane 6: Mouse kidney tissue lysate (40 µg/Lane)

Lane 7: Rat kidney tissue lysate (40 µg/Lane)

Predicted band size: 88 kDa

Observed band size: 130 kDa

Exposure time: 15 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722277) at 1/5,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

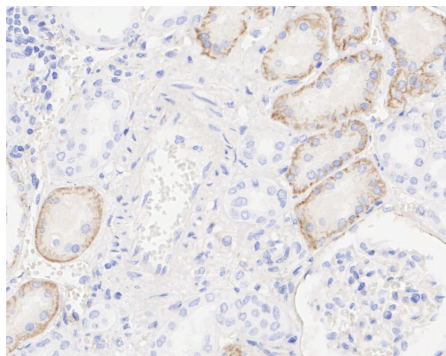


Fig2: Immunohistochemical analysis of paraffin-embedded human kidney tissue with Rabbit anti-K Cadherin antibody (HA722277) at 1/10,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722277) at 1/10,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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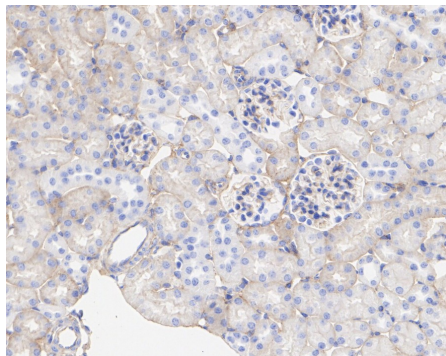


Fig3: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue with Rabbit anti-K Cadherin antibody (HA722277) at 1/5,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722277) at 1/5,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

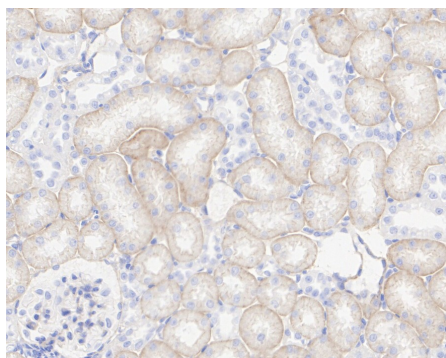


Fig4: Immunohistochemical analysis of paraffin-embedded rat kidney tissue with Rabbit anti-K Cadherin antibody (HA722277) at 1/10,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722277) at 1/10,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Webber HC et al. The Role of Wnt/beta-Catenin Signaling and K-Cadherin in the Regulation of Intraocular Pressure. *Invest Ophthalmol Vis Sci.* 2018 Mar
2. Karthikeyan S et al. Cadherin-6 type 2, K-cadherin (CDH6) is regulated by mutant p53 in the fallopian tube but is not expressed in the ovarian surface. *Oncotarget.* 2016 Oct

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