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Datasheet for ABIN3042913

anti-Cadherin 5 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	Cadherin 5 (CDH5)
Binding Specificity:	AA 766-784, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cadherin 5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Cadherin-5(CDH5) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human VE Cadherin(766-784aa RFKMLAELYGSDPREELLY), different from the related mouse and rat sequences by three amino acids.
Sequence:	RFKMLAELYG SDPREELLY
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.

Product Details

Characteristics: Rabbit IgG polyclonal antibody for Cadherin-5(CDH5) detection. Tested with WB, IHC-P in Human, Mouse, Rat.
Gene Name: cadherin 5, type 2(vascular endothelium)
Protein Name: Cadherin-5

Purification: Immunogen affinity purified.

Target Details

Target: Cadherin 5 (CDH5)

Alternative Name: CDH5 ([CDH5 Products](#))

Background: CDH5(Cadherin 5), also known as VE-cadherin, is a type of cadherin. It is encoded by the human gene CDH5. Kremmidiotis et al.(1998) mapped the human CDH5 gene to 16q22.1 using somatic cell hybrid panels. Functioning as a classic cadherin by imparting to cells the ability to adhere in a homophilic manner, the protein may play an important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions. Therefore it was concluded that VE-cadherin serves the purpose of maintaining newly formed vessels.

Synonyms: 7B 4 antibody|7B4 antibody|7B4 antigen antibody|CADH5_HUMAN antibody|Cadherin 5 antibody|Cadherin 5 type 2 antibody|Cadherin 5, type 2(vascular endothelium) antibody|Cadherin 5, type 2, VE cadherin(vascular epithelium) antibody|cadherin, vascular endothelial antibody|cadherin, vascular endothelial, 1 antibody|Cadherin-5 antibody|Cadherin5 antibody|CD 144 antibody|CD144 antibody|CD144 antigen antibody|CDH 5 antibody|CDH5 antibody|CDH5 protein antibody|Endothelial specific cadherin antibody|FLJ17376 antibody|OTTHUMP00000174777 antibody|Vascular endothelial cadherin antibody|Vascular epithelium cadherin antibody|VE Cad antibody|VE-cadherin antibody|VEC antibody

UniProt: [P33151](#)

Pathways: [Cell-Cell Junction Organization](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,
Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for

Application Details

20 mins is required for the staining of formalin/paraffin sections.

Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.

Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months

Publications

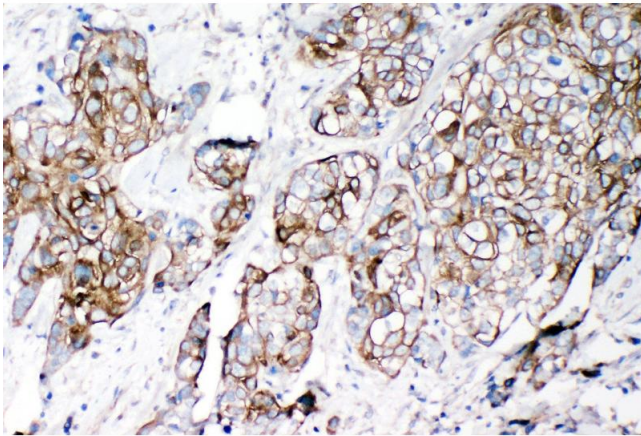
Product cited in: Zhang, Yan, Xu, Fang, Zhang, Zhang, Wu, Kong, Huang: "The recovery trajectory of adolescent social defeat stress-induced behavioral, (1)H-MRS metabolites and myelin changes in Balb/c mice." in: **Scientific reports**, Vol. 6, pp. 27906, (2018) ([PubMed](#)).

Sun, Hu, Xiong, Tu, Zhao, Chen, Song, Ye: "Enhanced expression of stem cell markers and drug resistance in sphere-forming non-small cell lung cancer cells." in: **International journal of**

clinical and experimental pathology, Vol. 8, Issue 6, pp. 6287-300, (2016) ([PubMed](#)).

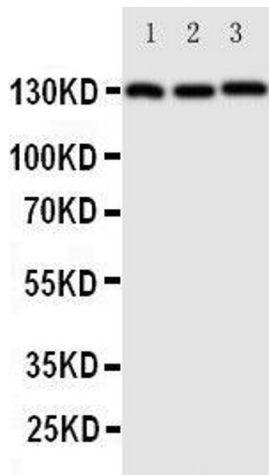
Yang, Gao, Zhang, Fang, Wu, Xu, Huang: "Changes in proinflammatory cytokines and white matter in chronically stressed rats." in: **Neuropsychiatric disease and treatment**, Vol. 11, pp. 597-607, (2015) ([PubMed](#)).

Images



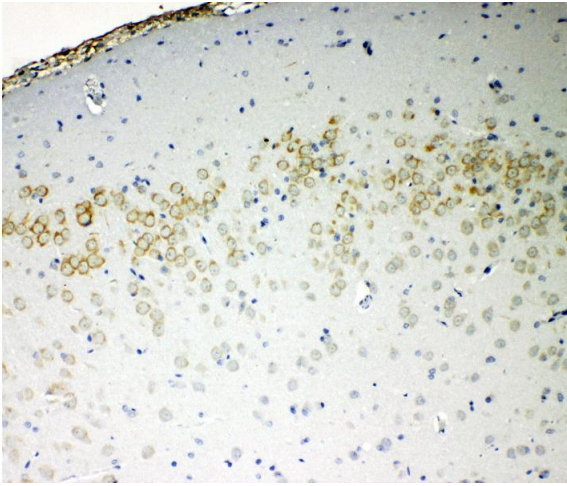
Immunohistochemistry

Image 1. Anti-VE Cadherin antibody, IHC(P) IHC(P): Human Lung Cancer Tissue



Western Blotting

Image 2.



Immunohistochemistry

Image 3. Anti-VE Cadherin antibody, IHC(P) IHC(P): Rat Brain Tissue