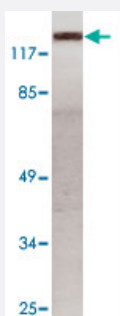


CDH1/CDH2/CDH3/CDH4 polyclonal antibody

Catalog # PAB27057

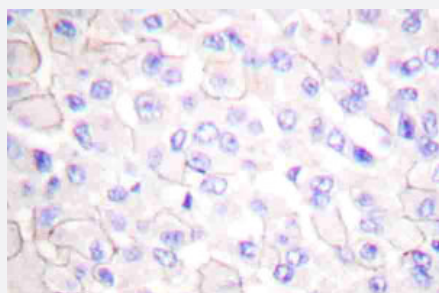
Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of CDH1/CDH2/CDH3/CDH4 polyclonal antibody (Cat # PAB27057) in extracts from HeLa cells.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of CDH1/CDH2/CDH3/CDH4 polyclonal antibody (Cat # PAB27057) in paraffin-embedded human breast carcinoma tissue.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CDH1/CDH2/CDH3/CDH4.
Immunogen	A synthetic peptide corresponding to human CDH1/CDH2/CDH3/CDH4.
Host	Rabbit
Theoretical MW (kDa)	130
Reactivity	Human, Mouse, Rat
Specificity	CDH1/CDH2/CDH3/CDH4 polyclonal antibody detects endogenous levels of CDH1/CDH2/CDH3/CDH4 protein.

Form	Liquid
Purification	Antigen affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (0.05% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of CDH1/CDH2/CDH3/CDH4 polyclonal antibody (Cat # PAB27057) in extracts from HeLa cells.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of CDH1/CDH2/CDH3/CDH4 polyclonal antibody (Cat # PAB27057) in paraffin-embedded human breast carcinoma tissue.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — CDH1

Entrez GeneID	999
Protein Accession#	P12830 (Gene ID : 999);P19022 (Gene ID : 1000);P22223 (Gene ID : 1001);P55283 (Gene ID : 1002)
Gene Name	CDH1
Gene Alias	Arc-1, CD324, CDHE, ECAD, LCAM, UVO
Gene Description	cadherin 1, type 1, E-cadherin (epithelial)
Omim ID	137215 192090

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a trans membrane region and a highly conserved cytoplasmic tail. Mutations in this gene are correlated with gastric, breast, colorectal, thyroid and ovarian cancer. Loss of function is thought to contribute to progression in cancer by increasing proliferation, invasion, and/or metastasis. The ectodomain of this protein mediates bacterial adhesion to mammalian cells and the cytoplasmic domain is required for internalization. Identified transcript variants arise from mutation at consensus splice sites. [provided by RefSeq]

Other Designations

cadherin 1, E-cadherin (epithelial)|cadherin 1, type 1|calcium-dependent adhesion protein, epithelial|cell-CAM 120/80|uvomorulin

Gene Info — CDH2

Entrez GeneID

[1000](#)

Protein Accession#

[P12830 \(Gene ID : 999\);P19022 \(Gene ID : 1000\);P22223 \(Gene ID : 1001\);P55283 \(Gene ID : 1002\)](#)

Gene Name

CDH2

Gene Alias

CD325, CDHN, CDw325, NCAD

Gene Description

cadherin 2, type 1, N-cadherin (neuronal)

Omim ID

[114020](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a trans membrane region and a highly conserved cytoplasmic tail. The protein functions during gastrulation and is required for establishment of left-right asymmetry. At certain central nervous system synapses, presynaptic to postsynaptic adhesion is mediated at least in part by this gene product. [provided by RefSeq]

Other Designations

N-cadherin 1|cadherin 2, N-cadherin (neuronal)|cadherin 2, type 1|calcium-dependent adhesion protein, neuronal|neural cadherin

Gene Info — CDH3

Entrez GeneID

[1001](#)

Protein Accession#

[P12830 \(Gene ID : 999\);P19022 \(Gene ID : 1000\);P22223 \(Gene ID : 1001\);P55283 \(Gene ID : 1002\)](#)

Gene Name	CDH3
Gene Alias	CDHP, HJMD, PCAD
Gene Description	cadherin 3, type 1, P-cadherin (placental)
Omim ID	114021 601553
Gene Ontology	Hyperlink
Gene Summary	This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium -dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. This gene is located in a six-cadherin cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. In addition, aberrant expression of this protein is observed in cervical adenocarcinomas. Mutations in this gene have been associated with congenital hypotrichosis with juvenile macular dystrophy. [provided by RefSeq]
Other Designations	cadherin 3, type 1 calcium-dependent adhesion protein, placental

Gene Info — CDH4

Entrez GeneID	1002
Protein Accession#	P12830 (Gene ID : 999);P19022 (Gene ID : 1000);P22223 (Gene ID : 1001);P55283 (Gene ID : 1002)
Gene Name	CDH4
Gene Alias	CAD4, FLJ22202, FLJ40547, MGC126700, MGC138355, RCAD
Gene Description	cadherin 4, type 1, R-cadherin (retinal)
Omim ID	603006
Gene Ontology	Hyperlink
Gene Summary	This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium -dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Based on studies in chicken and mouse, this cadherin is thought to play an important role during brain segmentation and neuronal outgrowth. In addition, a role in kidney and muscle development is indicated. Of particular interest are studies showing stable cis-heterodimers of cadherins 2 and 4 in cotransfected cell lines. Previously thought to interact in an exclusively homophilic manner, this is the first evidence of cadherin heterodimerization. [provided by RefSeq]
Other Designations	OTTHUMP00000031444 R-cadherin cadherin 4, type 1 cadherin 4, type 1, preproprotein retinal cadherin

Pathway

- [Adherens junction](#)
- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Bladder cancer](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Endometrial cancer](#)
- [Melanoma](#)
- [Pathogenic Escherichia coli infection - EHEC](#)
- [Pathways in cancer](#)
- [Thyroid cancer](#)

Disease

- [Adenocarcinoma](#)
- [Asthma](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Carcinoma](#)
- [Cerebral Hemorrhage](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Lip](#)
- [Cleft Palate](#)

- [Cleft Palate](#)
- [Colitis](#)
- [Colitis](#)
- [Colorectal Neoplasms](#)
- [Crohn Disease](#)
- [Disease Progression](#)
- [Esophageal Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Glaucoma](#)
- [Head and Neck Neoplasms](#)
- [Head and Neck Neoplasms](#)
- [Helicobacter Infections](#)
- [Hepatitis B](#)
- [Hypertension](#)
- [Infant](#)
- [Intracranial Hemorrhages](#)
- [Kidney Diseases](#)
- [Kidney Neoplasms](#)
- [Laryngeal Neoplasms](#)
- [Laryngeal Neoplasms](#)
- [Leiomyoma](#)
- [Liver Neoplasms](#)

- [Low Tension Glaucoma](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mouth Neoplasms](#)
- [Mouth Neoplasms](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neoplastic Syndromes](#)
- [Obesity](#)
- [Ocular Hypertension](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Pharyngeal Neoplasms](#)
- [Pharyngeal Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Respiratory Syncytial Virus Infections](#)

- [Stomach Neoplasms](#)
- [Stroke](#)
- [Subarachnoid Hemorrhage](#)
- [Tobacco Use Disorder](#)
- [Tobacco Use Disorder](#)
- [Tooth Abnormalities](#)
- [Tooth Abnormalities](#)
- [Ureteral Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Calculi](#)
- [Urologic Neoplasms](#)
- [Uterine Neoplasms](#)
- [Werner syndrome](#)