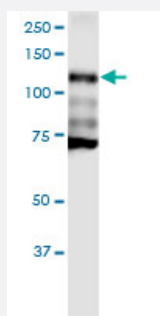


CDH1 monoclonal antibody (M01), clone 3F4

Catalog # H00000999-M01

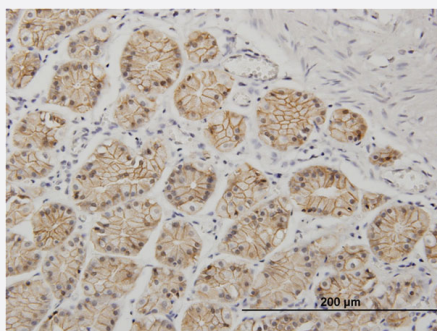
Size 100 ug

Applications



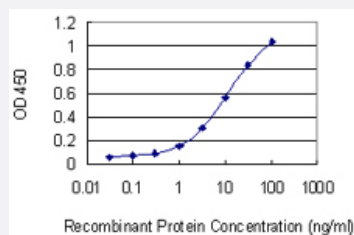
Western Blot (Tissue lysate)

CDH1 monoclonal antibody (M01), clone 3F4. Western Blot analysis of CDH1 expression in human kidney.



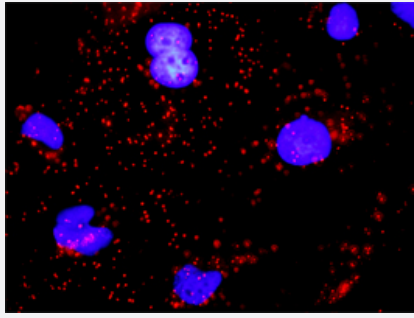
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to CDH1 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 0.375 ug/ml]



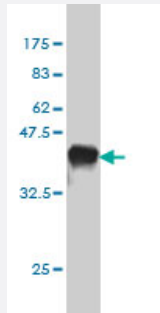
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CDH1 is 0.1 ng/ml as a capture antibody.



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between EGFR and CDH1. HeLa cells were stained with anti-EGFR rabbit purified polyclonal 1:1200 and anti-CDH1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant CDH1.
Immunogen	CDH1 (NP_004351, 381 a.a. ~ 480 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	KGQVPENEANVVITLKVTDADAPNTPAWEAVYILNDDGGQFVVTNPVNNDGILKTAKGLDFEAKQQYLHVAVTNVVPFEVSLTTSTATVTVDVLDV
Host	Mouse
Reactivity	Human
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

CDH1 monoclonal antibody (M01), clone 3F4. Western Blot analysis of CDH1 expression in human kidney.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

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

Immunoperoxidase of monoclonal antibody to CDH1 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 0.375 ug/ml]

[Protocol Download](#)

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[Protocol Download](#)

- ELISA

- In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between EGFR and CDH1. HeLa cells were stained with anti-EGFR rabbit purified polyclonal 1:1200 and anti-CDH1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Gene Info — CDH1

Entrez GeneID [999](#)

GeneBank Accession# [NM_004360](#)

Protein Accession# [NP_004351](#)

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

Publication Reference

- [Development of an AlphaLISA assay to quantify serum core-fucosylated E-cadherin as a metastatic lung adenocarcinoma biomarker.](#)

Wen CL, Chen KY, Chen CT, Chuang JG, Yang PC, Chow LP.

Journal of Proteomics 2012 Jul; 75(13):3963.

Application: ELISA, Func, Human, Serum of lung adenocarcinoma patients

Pathway

- [Adherens junction](#)
- [Bladder cancer](#)
- [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](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colitis](#)
- [Colorectal Neoplasms](#)
- [Crohn Disease](#)
- [Disease Progression](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glaucoma](#)
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- [Meningeal Neoplasms](#)
- [Meningioma](#)

- [Mouth Neoplasms](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
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- [Ovarian Neoplasms](#)
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- [Pharyngeal Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Respiratory Syncytial Virus Infections](#)
- [Stomach Neoplasms](#)
- [Tooth Abnormalities](#)
- [Ureteral Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Calculi](#)
- [Urologic Neoplasms](#)
- [Uterine Neoplasms](#)

- [Werner syndrome](#)