SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-E cadherin antibody

SL10009R

Product Name:	E cadherin
Chinese Name:	上皮钙粘附分子抗体
Alias:	E-cadherin; anion exchanger protein 3; Arc 1; Cadherin 1; cadherin 1 type 1 E-cadherin; Cadherin1; CAM 120/80; CD 234; CD324; CD324 antigen; CDH1; CDHE; ECAD; Epithelial cadherin; epithelial calcium dependant adhesion protein; LCAM; Liver cell adhesion molecule; UVO; Uvomorulin.
文献引用 PubMed :	**Specific References(5)**|SL10009R has been referenced in 5 publications. **[IF=3.73]**Chen, Cheng-Hsien, et al. "MicroRNA-328 Inhibits Renal Tubular Cell Epithelial-to-Mesenchymal Transition by Targeting the CD44 in Pressure-Induced Renal Fibrosis." PloS one 9.6 (2014): e99802.**WB;Rat**. PubMed:24919189 **[IF=2.25]**Neelam, Sudha, Morgan M. Brooks, and Patrick R. Cammarata. "Lenticular cytoprotection, part 2: Link between glycogen synthase kinase-3β, epithelial to mesenchymal transition, and mitochondrial depolarization." (2015) Molecular Vision.**Human**. PubMed:25593505 **[IF=7.43]**Wang, Jing, et al. "Phosphorylation-dependent regulation of ALDH1A1 by Aurora kinase A: insights on their synergistic relationship in pancreatic cancer." BMC biology 15.1 (2017): 10.**WB;Human**. PubMed:28193222 **[IF=3.23]**Borin, Thaiz F., et al. "HET0016 decreases lung metastasis from breast cancer in immune-competent mouse model." PLoS One 12.6 (2017).**WB, IHC-P;Mouse**. PubMed:28609459

	[IF=3.13]Zhang, Wen-feng, et al. "Angelica polysaccharides inhibit the growth and promote the apoptosis of U251 glioma cells in vitro and in vivo." Phytomedicine (2017).**WB;Human**. PubMed:0
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	90/97kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human E-cadherin:401-500/882<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes a classical cadherin of the cadherin superfamily. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion protein is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Mutations in this gene are correlated with gastric, breast, colorectal, thyroid and ovarian cancer. Loss of function of this gene is thought to contribute to cancer progression 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. This gene is present in a gene cluster with other members of the cadherin family on chromosome 16. [provided by RefSeq, Nov 2015] **Function:** Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. CDH1 is involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells. Has a potent invasive suppressor role. It is a ligand for integrin alpha-E/beta-7. E-Cad/CTF2 promotes non-amyloidogenic degradation of Abeta precursors. Has a strong inhibitory

effect on APP C99 and C83 production.

Subunit:
Homodimer.

Subcellular Location:
Cell junction. Cell membrane; Single-pass type I membrane protein.

Tissue Specificity:
Non-neural epithelial tissues.

Post-translational modifications:
Defects in CDH1 are the cause of hereditary diffuse gastric cancer (HDGC) . An autosomal dominant cancer predisposition syndrome with increased susceptibility to diffuse gastric cancer. Diffuse gastric cancer is a malignant disease characterized by poorly differentiated infiltrating lesions resulting in thickening of the stomach. Malignant tumors start in the stomach, can spread to the esophagus or the small intestine, and can extend through the stomach wall to nearby lymph nodes and organs. It also can metastasize to other parts of the body. Note=Heterozygous germline mutations CDH1 are responsible for familial cases of diffuse gastric cancer. Somatic mutations in the has also been found in patients with sporadic diffuse gastric cancer and lobular breast cancer.

Similarity:
Contains 5 cadherin domains.

SWISS:
P12830

Gene ID:
999

Database links:

Entrez Gene: 999 Human

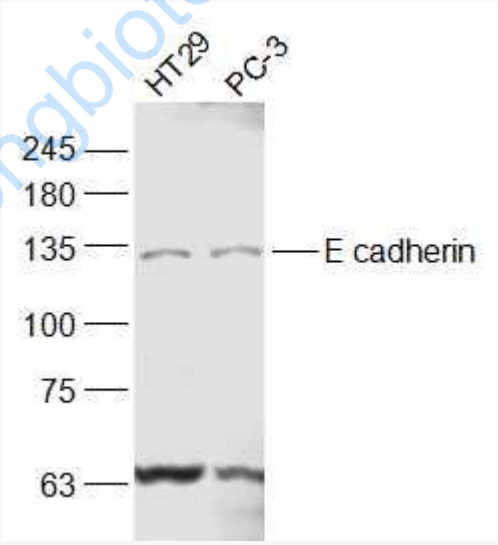
Entrez Gene: 12550 Mouse

Entrez Gene: 83502 Rat

Entrez Gene: 282637Cow

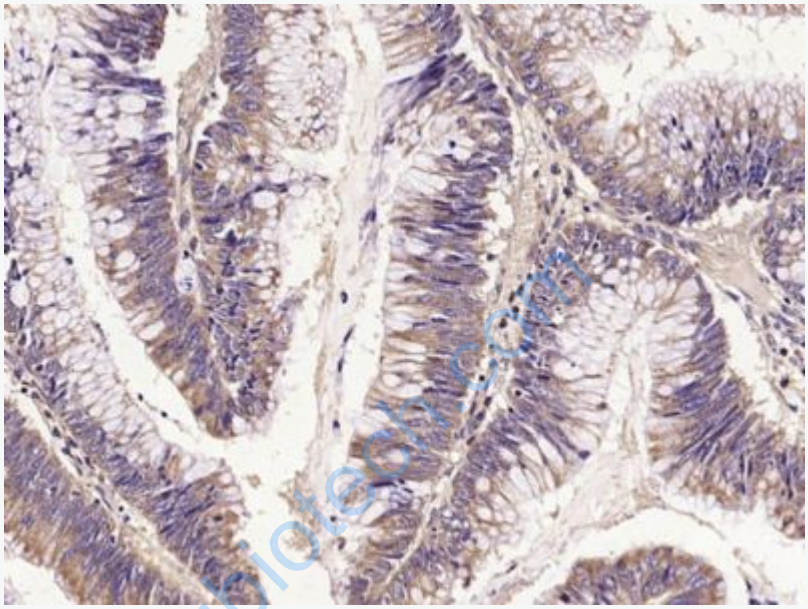
Entrez Gene: 442858Dog

Omim: 192090 Human

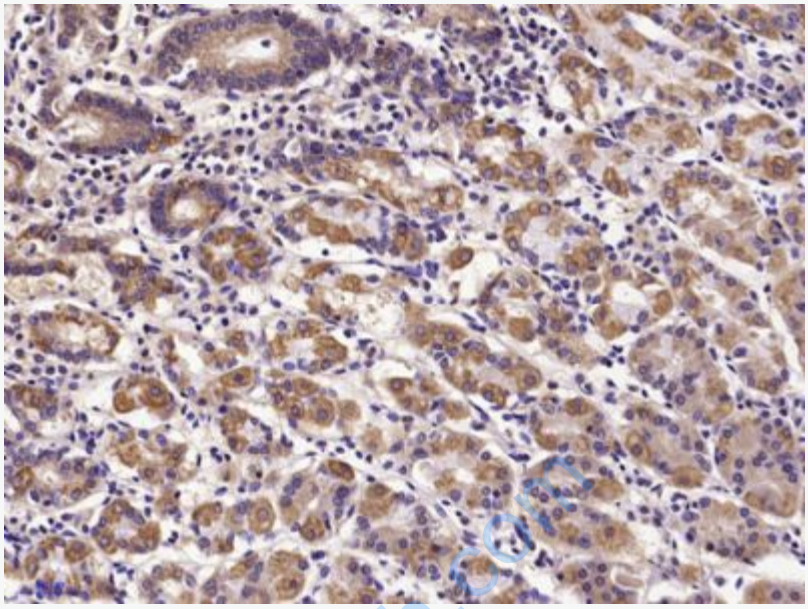
	SwissProt: Q6R8F2 Cow SwissProt: P12830 Human SwissProt: P09803 Mouse SwissProt: Q9R0T4 Rat Unigene: 461086 Human Unigene: 35605 Mouse Unigene: 1303 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Sample: HT29(Human) Cell Lysate at 30 ug PC-3(Human) Cell Lysate at 30 ug Primary: Anti-E cadherin (SL10009R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 20/80 kD

Observed band size: 130 kD



Paraformaldehyde-fixed, paraffin embedded (Human cervical carcinoma); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (E cadherin) Polyclonal Antibody, Unconjugated (SL10009R) at 1:400 overnight at 4℃, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human stomach); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (E cadherin) Polyclonal Antibody, Unconjugated (SL10009R) at 1:400 overnight at 4℃, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.