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Product datasheet for UM500023CF

N Cadherin (CDH2) Mouse Monoclonal Antibody [Clone ID: UMAB23]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB23
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human CDH2(NP_001783) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	97.2 kDa
Gene Name:	cadherin 2
Database Link:	NP_001783 Entrez Gene 12558 MouseEntrez Gene 83501 RatEntrez Gene 1000 Human P19022

View online »

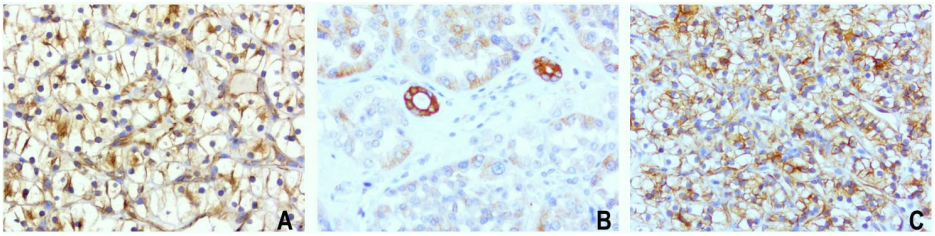
Background: This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. The protein functions during gastrulation 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]

Synonyms: CD325; CDHN; CDw325; NCAD

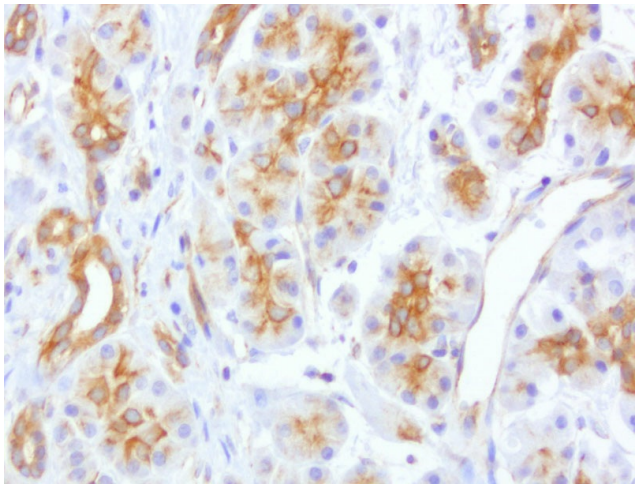
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cell adhesion molecules (CAMs)

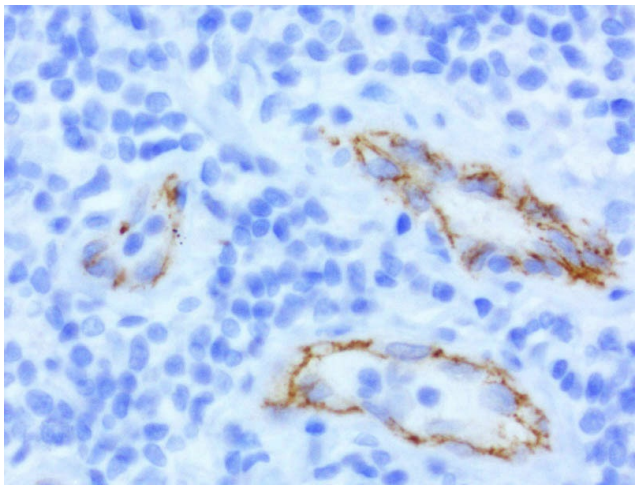
Product images:



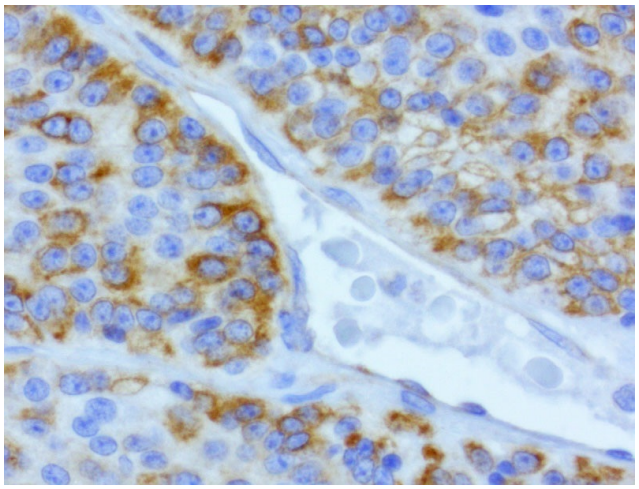
Immunohistochemical staining of paraffin-embedded of 3 human carcinoma of kidney using anti-CDH2 clone UMAB23 mouse monoclonal antibody at 1:400 dilution of 1.0mg/mL using Polink2 Broad HRP DAB detection kit. [UM500023] requires heat-induced epitope retrieval with Citrate pH6.0 in a pressure chamber/cooker high 3min. The composit image of 3 human carcinoma of the kidney all show strong membraneous and cytoplasmic staining in the tumor cells.



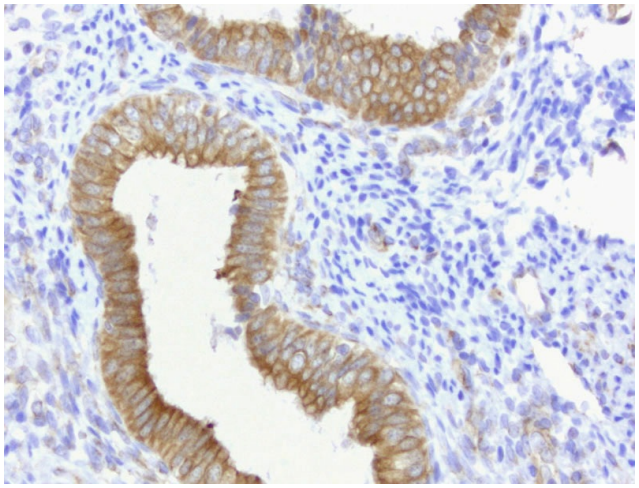
Immunohistochemical staining of paraffin-embedded of human pancreas using anti-CDH2 clone UMAB23 mouse monoclonal antibody at 1:400 dilution of 1.0mg/mL using Polink2 Broad HRP DAB detection kit. [UM500023] requires heat-induced epitope retrieval with Citrate pH6.0 in a pressure chamber/cooker high 3min. The image shows gladular cells of the pancreas membraneous and cytoplasmic staining cells.



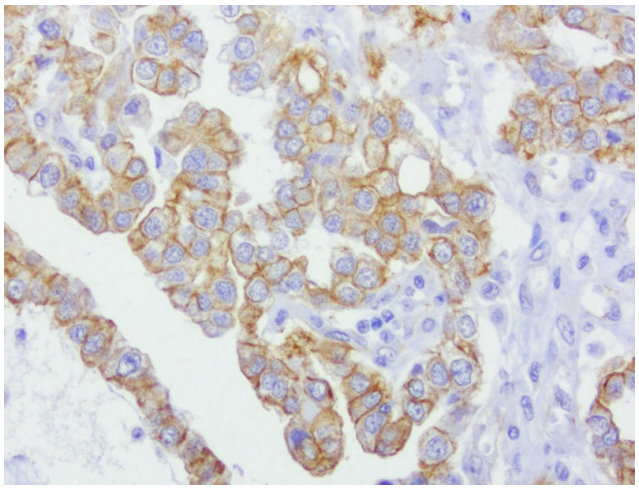
Immunohistochemical staining of paraffin-embedded of human lymph node using anti-CDH2 clone UMAB23 mouse monoclonal antibody at 1:400 dilution of 1.0mg/mL using Polink2 Broad HRP DAB detection kit. [UM500023] requires heat-induced epitope retrieval with Citrate pH6.0 in a pressure chamber/cooker high 3min. The image shows cells of the lymph node are negative. Positive staining seen in the endothelial cells, mostly membraneous with weak cytoplasmic.



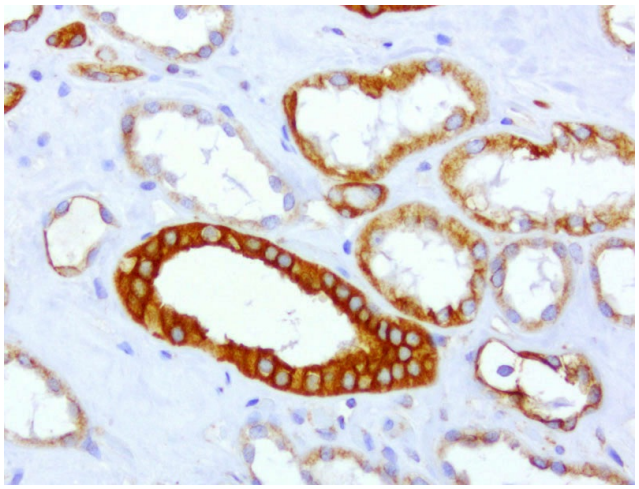
Immunohistochemical staining of paraffin-embedded of human carcinoma of the lung using anti-CDH2 clone UMAB23 mouse monoclonal antibody at 1:400 dilution of 1.0mg/mL using Polink2 Broad HRP DAB detection kit. [UM500023] requires heat-induced epitope retrieval with Citrate pH6.0 in a pressure chamber/cooker high 3min. The image shows the tumor cells with membraneous and cytoplasmic staining.



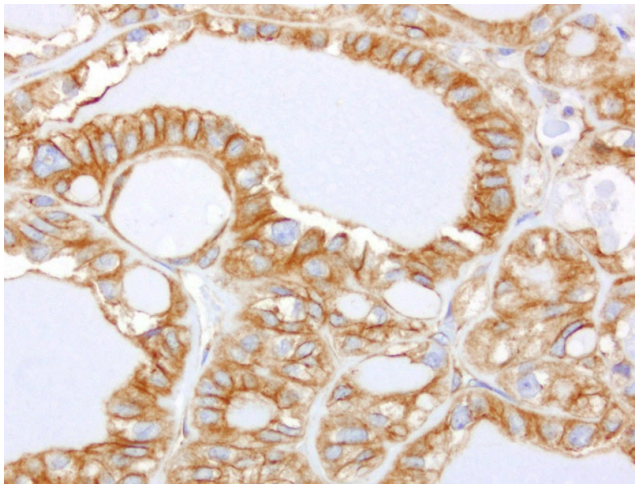
Immunohistochemical staining of paraffin-embedded of human endometrium using anti-CDH2 clone UMAB23 mouse monoclonal antibody at 1:400 dilution of 1.0mg/mL using Polink2 Broad HRP DAB detection kit. [UM500023] requires heat-induced epitope retrieval with Citrate pH6.0 in a pressure chamber/cooker high 3min. The image shows strong membranous and cytoplsamic staining of the endometrial cells.



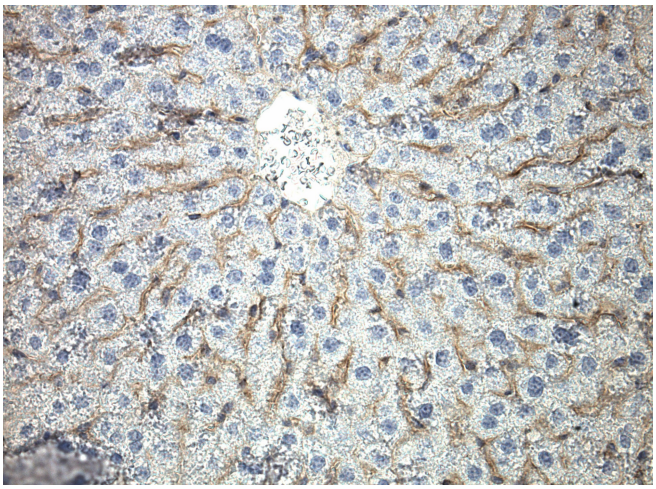
Immunohistochemical staining of paraffin-embedded of human ovarian carcinoma using anti-CDH2 clone UMAB23 mouse monoclonal antibody at 1:400 dilution of 1.0mg/mL using Polink2 Broad HRP DAB detection kit. [UM500023] requires heat-induced epitope retrieval with Citrate pH6.0 in a pressure chamber/cooker high 3min. The image shows strong membranous and cytoplsamic staining of the tumor cells



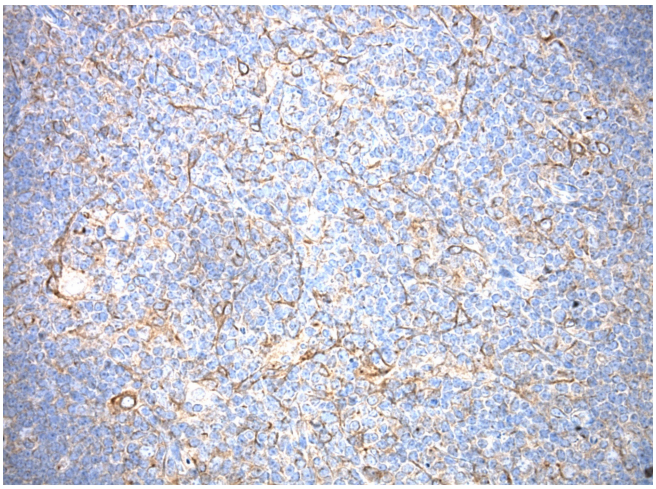
Immunohistochemical staining of paraffin-embedded of human kidney using anti-CDH2 clone UMAB23 mouse monoclonal antibody at 1:400 dilution of 1.0mg/mL using Polink2 Broad HRP DAB detection kit. [UM500023] requires heat-induced epitope retrieval with Citrate pH6.0 in a pressure chamber/cooker high 3min. The image shows strong membranous and cytoplsamic staining in the kidney tubules



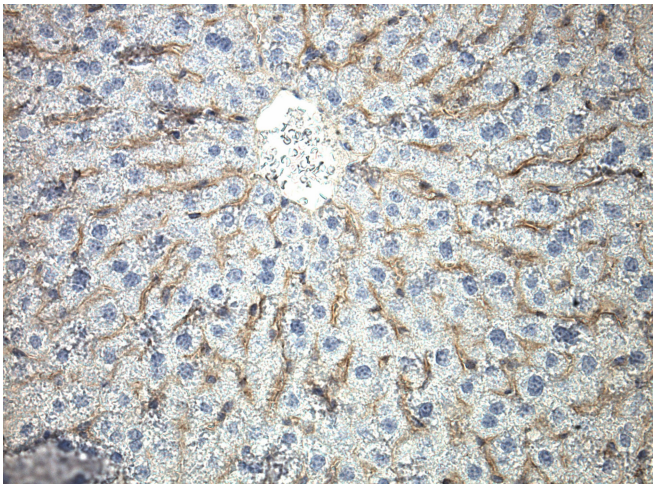
Immunohistochemical staining of paraffin-embedded of human thyroid carcinoma using anti-CDH2 clone UMAB23 mouse monoclonal antibody at 1:400 dilution of 1.0mg/mL using Polink2 Broad HRP DAB detection kit. [UM500023] requires heat-induced epitope retrieval with Citrate pH6.0 in a pressure chamber/cooker high 3min. The image shows strong membranous and cytoplsamic staining of the tumor cells



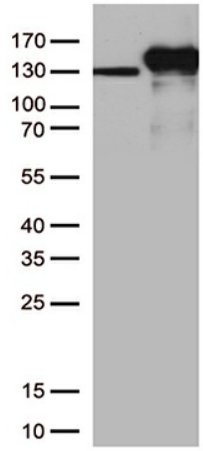
Immunohistochemical staining of paraffin-embedded mouse lung tissue using anti-CDH2 clone UMAB23 mouse monoclonal antibody. HIER ACCEL buffer ([B22C-125]) (pH8.7) at 110C for 10 min, [UM500023] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



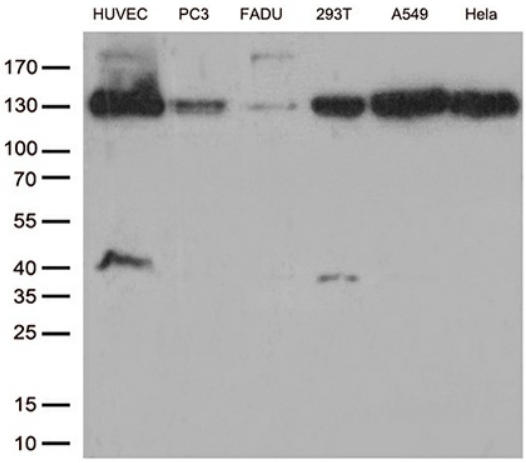
Immunohistochemical staining of paraffin-embedded mouse spleen tissue using anti-CDH2 clone UMAB23 mouse monoclonal antibody. HIER ACCEL buffer ([B22C-125]) (pH8.7) at 110C for 10 min, [UM500023] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



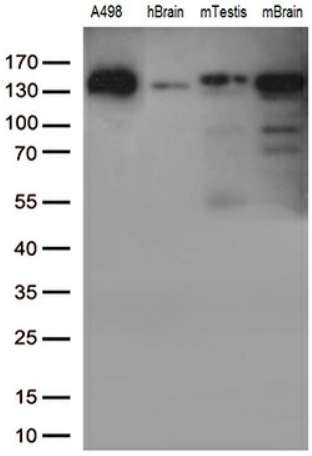
Immunohistochemical staining of paraffin-embedded mouse liver tissue using anti-CDH2 clone UMAB23 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, [UM500023] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



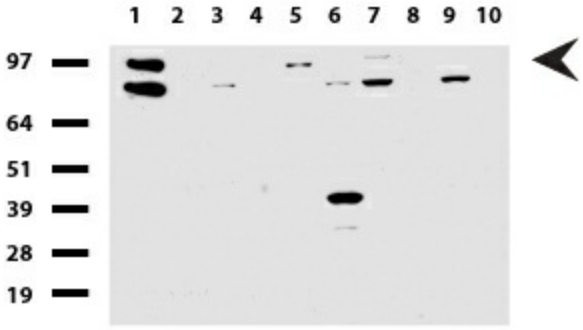
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CDH2 ([RC207170], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CDH2 mouse monoclonal antibody (1:1000).



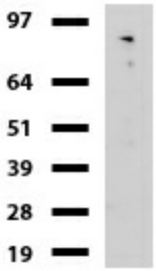
Western blot analysis of extracts (35ug) from 6 cell lines by using anti-CDH2 monoclonal antibody (1:500).



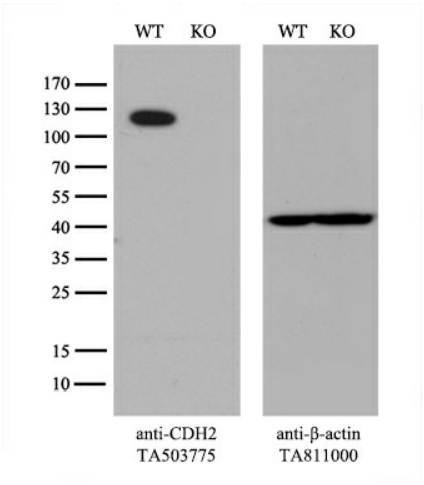
Western blot analysis of extracts (35ug) from cell line and tissues by using anti-CDH2 monoclonal antibody (1:500).



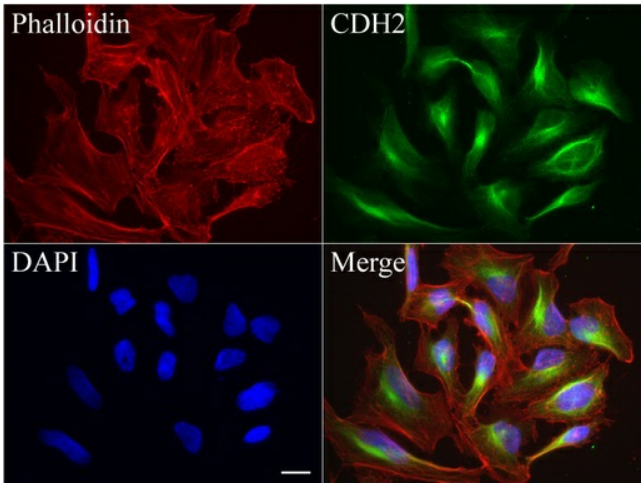
Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Liver, 7: Ovary, 8: Thyroid, 9: Colon, 10: Spleen). Diluation: 1:500.



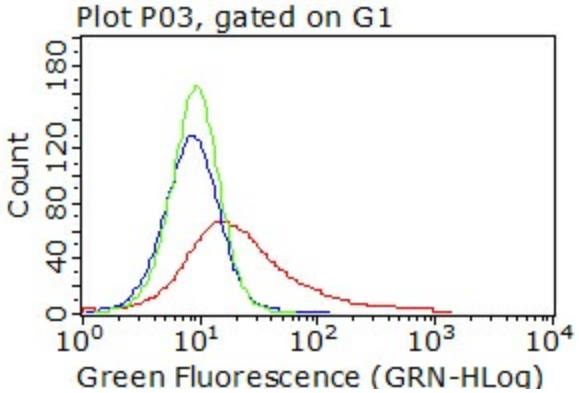
Western blot of mouse tissue lysates (20ug) from Brain. Primary antibody diluation: 1:500. Secondary antibody dilution: Mouse TrueBlot® Ultra (1:1000).



Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and CDH2-Knockout 293T cells (KO, Cat# [LC840285]) were separated by SDS-PAGE and immunoblotted with anti-CDH2 monoclonal antibody [UM500023], (1:500). Then the blotted membrane was stripped and reprobed with anti-b-actin antibody ([TA811000]) as a loading control.



Immunofluorescent staining of HeLa cells using anti-CDH2 mouse monoclonal antibody ([UM500023], green, 1:50). Actin filamentswere labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue). Scale bar, 20µm.



Living HEK293T cells transfected with either [RC207170] plasmid (red) or empty vector (blue) were immunostained by anti-CDH2 antibody ([UM500023]) or isotype control antibody (green), and then analyzed by flow cytometry (1:50).