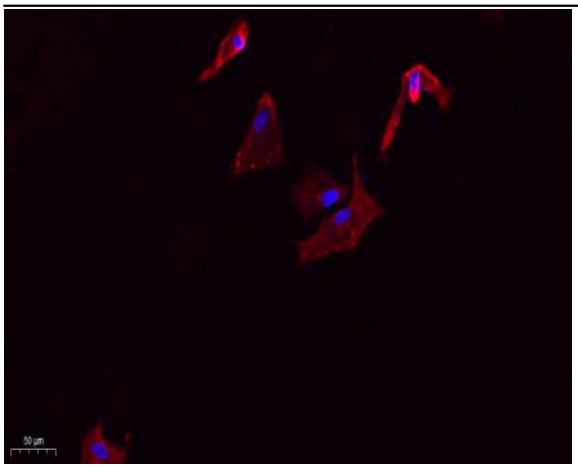
Best Tools for immunology Research

VE-Cadherin Polyclonal Antibody

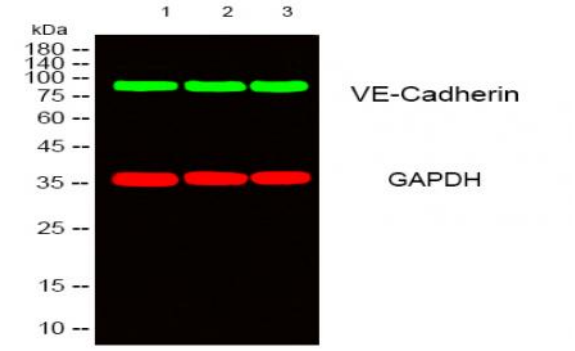
Catalog No :	YT5611
Reactivity :	Human;Mouse;Rat
Applications :	IF;WB;IHC;ELISA
Target :	VE-Cadherin
Fields :	>>Cell adhesion molecules;>>Leukocyte transendothelial migration;>>Fluid shear stress and atherosclerosis
Gene Name :	CDH5
Protein Name :	Cadherin-5
Human Gene Id :	1003
Human Swiss Prot No :	P33151
Mouse Gene Id :	12562
Mouse Swiss Prot No :	P55284
Immunogen :	The antiserum was produced against synthesized peptide derived from the Internal region of human CDH5. AA range:391-440
Specificity :	VE-Cadherin Polyclonal Antibody detects endogenous levels of VE-Cadherin protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IF 1:50-200 WB 1:500-2000, ELISA 1:10000-20000 IHC 1:50-300
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	86kD
Observed Band :	110-130kD
Cell Pathway :	Cell adhesion molecules (CAMs);Leukocyte transendothelial migration;
Background :	This gene encodes a classical cadherin of the cadherin superfamily. The encoded preproprotein is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion molecule is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Functioning as a classical cadherin by imparting to cells the ability to adhere in a homophilic manner, this protein plays a role in endothelial adherens junction assembly and maintenance. This gene is located in a gene cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. [provided by RefSeq, Nov 2015],
Function :	function:Cadherins are calcium dependent cell adhesion proteins.,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. This cadherin may play a important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions. It associates with alpha-catenin forming a link to the cytoskeleton.,similarity:Contains 5 cadherin domains.,subcellular location:Found at cell-cell boundaries and probably at cell-matrix boundaries.,tissue specificity:Endothelial tissues and brain.,
Subcellular Location :	Cell junction . Cell membrane ; Single-pass type I membrane protein . Found at cell-cell boundaries and probably at cell-matrix boundaries. KRIT1 and CDH5 reciprocally regulate their localization to endothelial cell-cell junctions. .
Expression :	Endothelial tissues and brain.

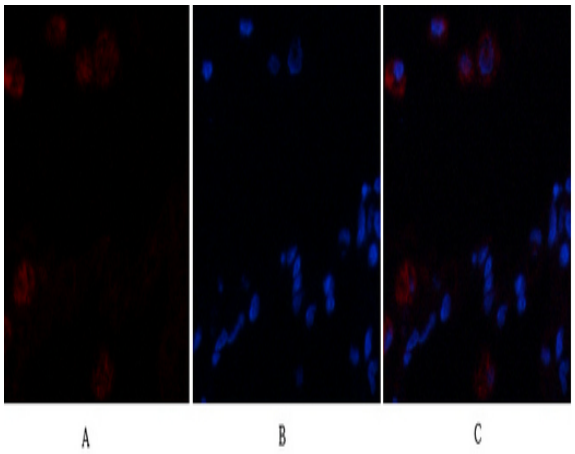
Products Images



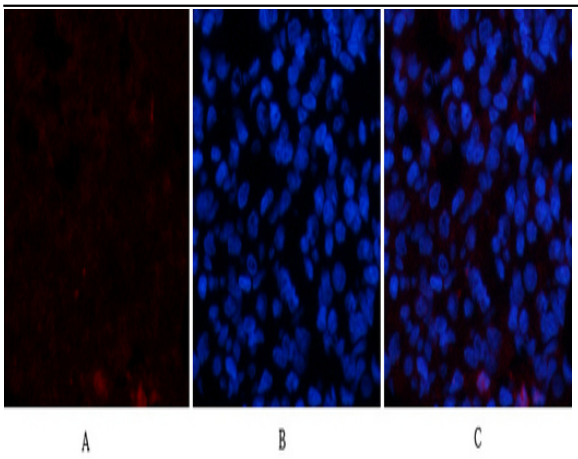
Immunofluorescence analysis of A549. 1,primary Antibody(red) was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.



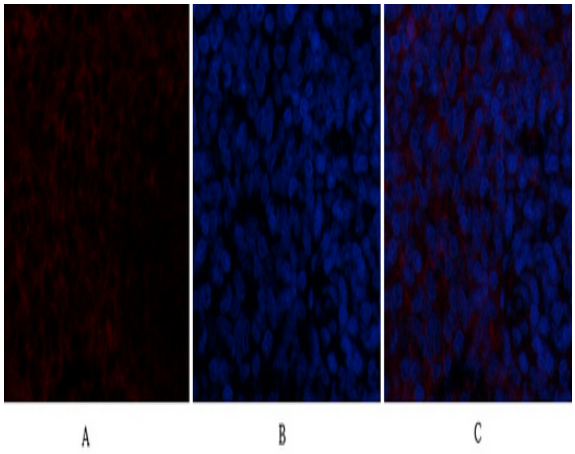
Western blot analysis of lysates from 1) Hela, 2) mouse-lung ,3) mouse-kidney cells, [?]Green[?] primary antibody was diluted at 1:1000, 4°over night, secondary antibody(cat:RS23920)was diluted at 1:10000, 37° 1hour. [?]Red[?] GAPDH Monoclonal Antibody(2B8) (cat:YM3029) antibody was diluted at 1:5000 as loading control, 4° over night,secondary antibody(cat:RS23710)was diluted at 1:10000, 37° 1hour.



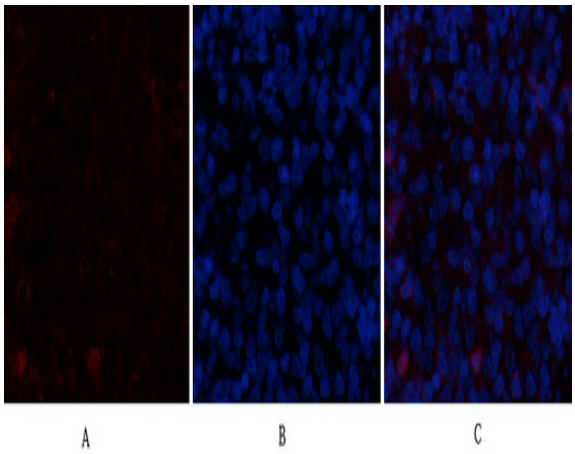
Immunofluorescence analysis of human-lung tissue. 1,VE-Cadherin Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of rat-lung tissue. 1,VE-Cadherin Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of rat-spleen tissue. 1,VE-Cadherin Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



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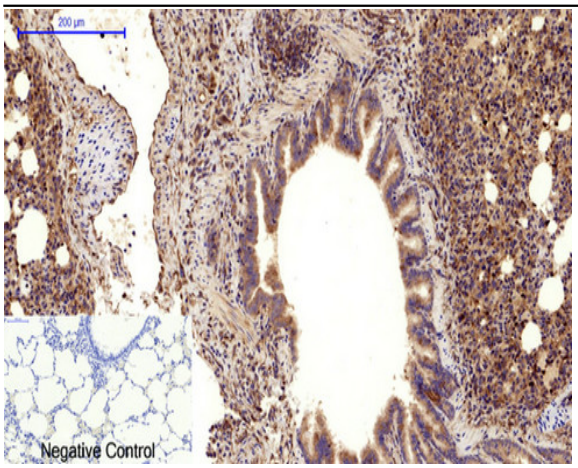
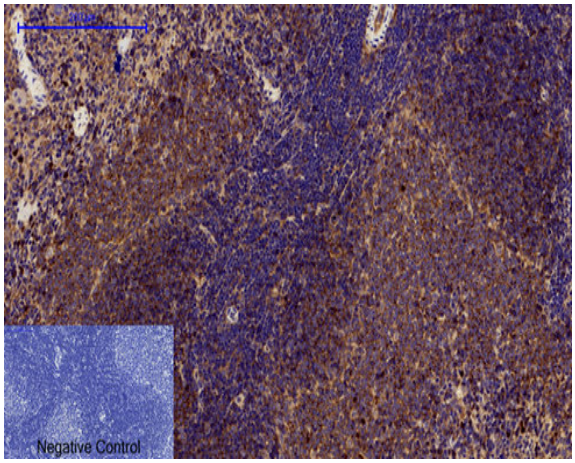


Immunohistochemical analysis of paraffin-embedded Rat-lung tissue. 1,VE-Cadherin Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



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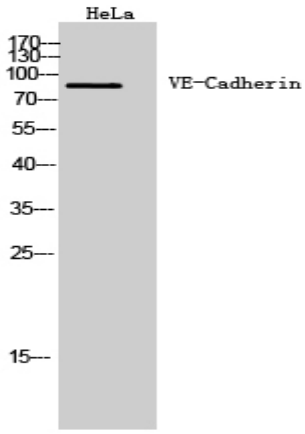
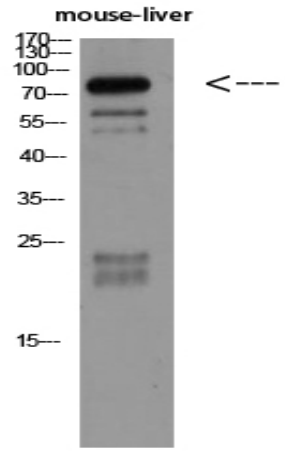
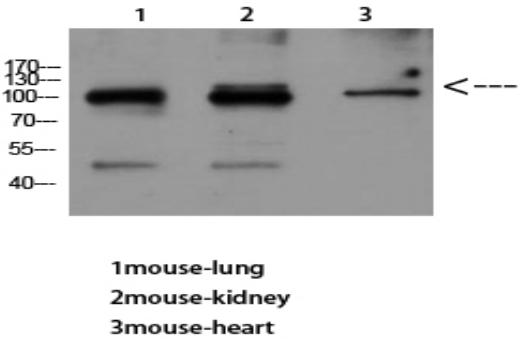


Western Blot analysis of Hela cells using VE-Cadherin Polyclonal Antibody. Antibody was diluted at 1:500. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western Blot analysis of mouse-liver using VE-Cadherin Polyclonal Antibody diluted at 1:500. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western Blot analysis of mouse-lung mouse-kidney mouse-heart using VE-Cadherin Polyclonal Antibody diluted at 1:500. Secondary antibody(catalog#:RS0002) was diluted at 1:20000