

N-cadherin Monoclonal Antibody

Catalog No :	YM0465
Reactivity :	Human;Mouse;Rat
Applications :	IHC;IF;FCM;ELISA
Target :	N-cadherin
Fields :	>>Cell adhesion molecules;>>Arrhythmogenic right ventricular cardiomyopathy
Gene Name :	CDH2
Protein Name :	Cadherin-2
Human Gene Id :	1000
Human Swiss Prot No :	P19022
Mouse Gene Id :	12558
Mouse Swiss Prot No :	P15116
Rat Gene Id :	83501
Rat Swiss Prot No :	Q9Z1Y3
Immunogen :	Purified recombinant fragment of human N-cadherin expressed in E. Coli.
Specificity :	N-cadherin Monoclonal Antibody detects endogenous levels of N-cadherin protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	IHC 1:200 - 1:1000. IF 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA: 1:10000. Not yet tested in other applications.

Purification : Affinity purification

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Cell Pathway : Cell adhesion molecules (CAMs);Arrhythmogenic right ventricular cardiomyopathy (ARVC);

P References : 1. J Biol Chem. 2007 Mar 16;282(11):8545-56.
2. Mol Cell Biochem. 2007 Aug;302(1-2):19-26.
3. Urol Oncol. 2010 Mar-Apr;28(2):180-8.

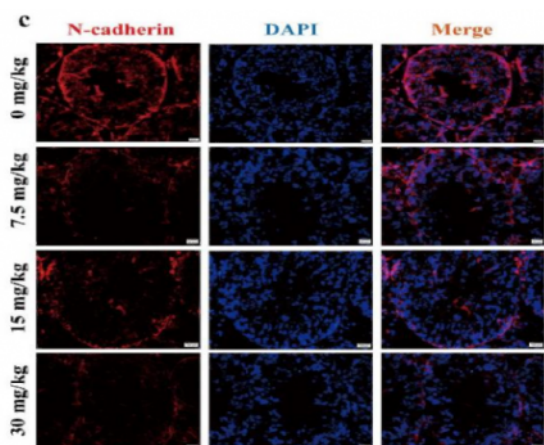
Background : This gene encodes a classical cadherin and member of the cadherin superfamily. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein is proteolytically processed to generate a calcium-dependent cell adhesion molecule and glycoprotein. This protein plays a role in the establishment of left-right asymmetry, development of the nervous system and the formation of cartilage and bone. [provided by RefSeq, Nov 2015],

Function : 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. CDH2 may be involved in neuronal recognition mechanism.,similarity:Contains 5 cadherin domains.,subunit:Interacts with CDCP1.,

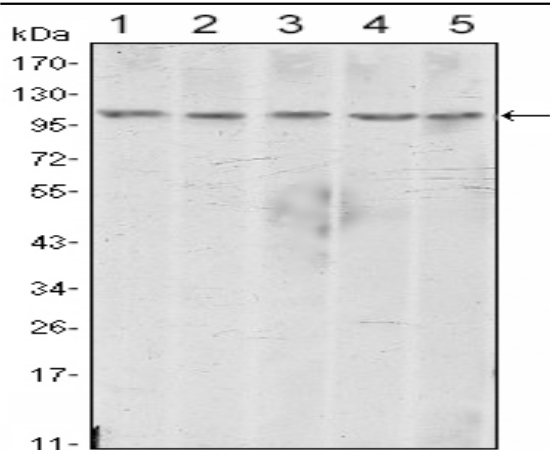
Subcellular Location : Cell membrane ; Single-pass type I membrane protein . Cell membrane, sarcolemma . Cell junction . Cell surface . Colocalizes with TMEM65 at the intercalated disk in cardiomyocytes. Colocalizes with OBSCN at the intercalated disk and at sarcolemma in cardiomyocytes. .

Expression : Brain,Epithelium,Liver,

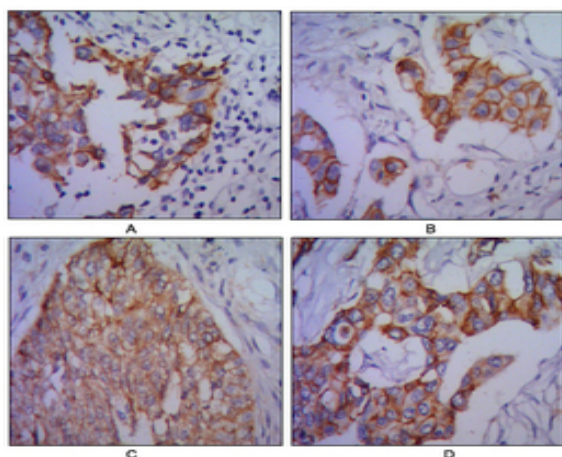
Products Images



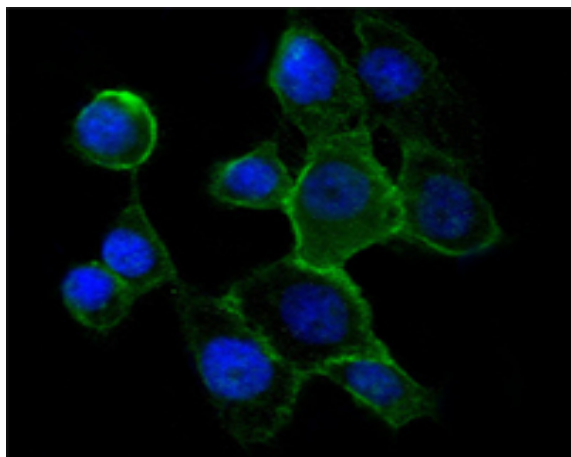
Fusobacterium nucleatum-triggered neutrophil extracellular traps facilitate colorectal carcinoma progression. JOURNAL OF EXPERIMENTAL & CLINICAL CANCER RESEARCH Liang Duan WB Human 1:1000 HCT116 cell,SW480 cell



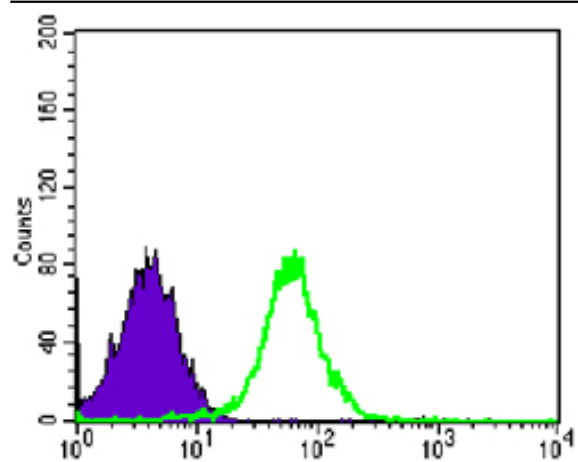
Western Blot analysis using N-cadherin Monoclonal Antibody against A431 (1), NIH/3T3 (2), HeLa (3), C6 (4) and LNCap (5) cell lysate.



Immunohistochemistry analysis of paraffin-embedded human lung cancer (A), colon cancer (B), ovarian cancer (C) and mammary cancer (D) with DAB staining using N-cadherin Monoclonal Antibody.



Immunofluorescence analysis of A431 cells using N-cadherin Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye.



Flow cytometric analysis of PC-2 cells using N-cadherin Monoclonal Antibody (green) and negative control (purple).