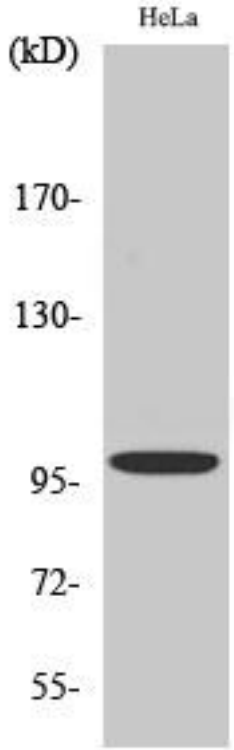
Catenin-α E/N Monoclonal Antibody

Catalog No	BYmab-16938
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CTNNA1/CTNNA2
Protein Name	Catenin alpha-1/2
Immunogen	The antiserum was produced against synthesized peptide derived from human Catenin-alpha1. AA range:857-906
Specificity	Catenin-α E/N Monoclonal Antibody detects endogenous levels of Catenin-α E/N protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CTNNA1; Catenin alpha-1; Alpha E-catenin; Cadherin-associated protein; Renal carcinoma antigen NY-REN-13; CTNNA2; CAPR; Catenin alpha-2; Alpha N-catenin; Alpha-catenin-related protein
Observed Band	100kD
Cell Pathway	[Isoform 1]: Cytoplasm, cytoskeleton. Cell junction, adherens junction. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell junction. Found at cell-cell boundaries and probably at cell-matrix boundaries.; [Isoform 3]: Cell membrane ; Peripheral membrane protein ; Cytoplasmic side .
Tissue Specificity	Expressed ubiquitously in normal tissues.
Function	disease:Abnormalities of alpha-catenin are involved in the process of cancer invasion and metastasis.,function:Associates with the cytoplasmic domain of a variety of cadherins. The association of catenins to cadherins produces a complex which is linked to the actin filament network, and which seems to be of primary importance for cadherins cell-adhesion properties. May play a crucial role in cell differentiation.,PTM:Sumoylated.,similarity:Belongs to the vinculin/alpha-catenin

	family.,subcellular location:Found at cell-cell boundaries and probably at cell-matrix boundaries.,subunit:Binds MLLT4 and F-actin (By similarity). Interacts directly with PSEN1 and CTNNB1 to form part of the PSEN1/cadherin/catenin adhesion complex. Interacts with ARHGAP21 and with JUB.,tissue specificity:Expressed ubiquitously in normal tissues.,
Background	catenin alpha 1(CTNNA1) Homo sapiens This gene encodes a member of the catenin family of proteins that play an important role in cell adhesion process by connecting cadherins located on the plasma membrane to the actin filaments inside the cell. The encoded mechanosensing protein contains three vinculin homology domains and undergoes conformational changes in response to cytoskeletal tension, resulting in the reconfiguration of cadherin-actin filament connections. Certain mutations in this gene cause butterfly-shaped pigment dystrophy. [provided by RefSeq, May 2016],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Catenin- α E/N Monoclonal Antibody