

**Catenin- $\alpha$  E/N rabbit pAb****Cat#: orb764736 (Manual)**

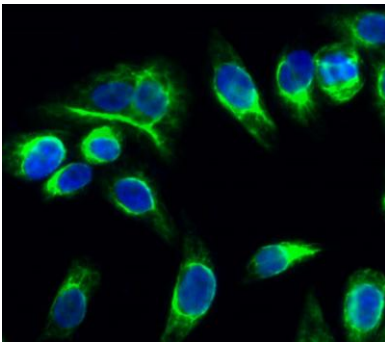
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	Catenin- $\alpha$ E/N rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human Catenin-alpha1. AA range:857-906
<b>Specificity</b>	Catenin- $\alpha$ E/N Polyclonal Antibody detects endogenous levels of Catenin- $\alpha$ E/N protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Catenin alpha-1/2
<b>Gene Name</b>	CTNNA1/CTNNA2
<b>Cellular localization</b>	[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 .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

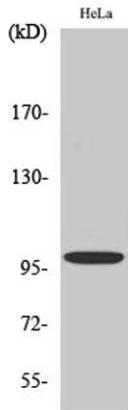
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	100kD
<b>Human Gene ID</b>	1495/1496
<b>Human Swiss-Prot Number</b>	P35221/P26232
<b>Alternative Names</b>	CTNNA1; Catenin alpha-1; Alpha E-catenin; Cadherin-associated protein; Renal carcinoma antigen NY-REN-13; CTNNA2; CAPR; Catenin alpha-2; Alpha N-catenin; Alpha-catenin-related protein

**Background**

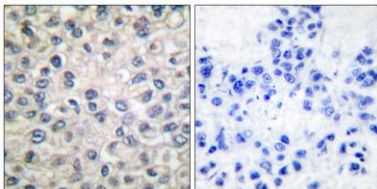
catenin alpha 1(CTNNA1) Homo sapiens This gene encodes a member of the catenin family of proteins that play an important role in cell adhesion process by connecting cadherins located on the plasma membrane to the actin filaments inside the cell. The encoded mechanosensing protein contains three vinculin 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],



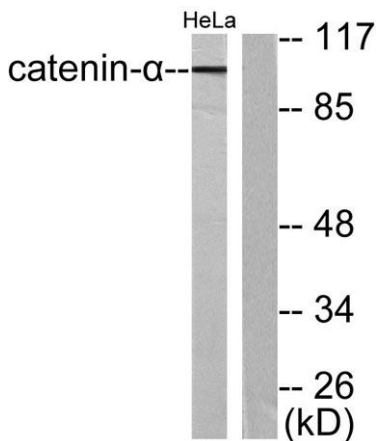
**Immunofluorescence analysis of HeLa cell. 1,Catenin- $\alpha$  E/N Polyclonal Antibody(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.**



Western Blot analysis of various cells using Catenin- $\alpha$  E/N Polyclonal Antibody diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using Catenin- $\alpha$ 1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, using Catenin- $\alpha$ 1 Antibody. The lane on the right is blocked with the synthesized peptide.