



Catenin- α 1 (phospho Ser641) Polyclonal Antibody

Catalog No	YP-Ab-16907
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	IHC;IF;ELISA
Gene Name	CTNNA1
Immunogen	The antiserum was produced against synthesized peptide derived from human Catenin-alpha1 around the phosphorylation site of Ser641. AA range:607-656
Specificity	Phospho-Catenin- α 1 (S641) Polyclonal Antibody detects endogenous levels of Catenin- α 1 protein only when phosphorylated at S641.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ,IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	Alpha E-catenin;Cadherin associated protein 12kDa;Cadherin associated protein;Cadherin-associated protein;CAP 12;CAP12;Catenin (cadherin associated protein) alpha 1 12kDa;Catenin (cadherin associated protein);alpha 1; 12kDa;Catenin alpha 1;Catenin alpha-1;CTNA1_HUMAN;CTNNA 1;Ctnna1; FLJ36832;FLJ52416;MDPT2;NY REN 13 antigen;OTTHUMP224141; OTTHUMP224147;Renal carcinoma antigen NY REN 13;Renal carcinoma antigen NY-REN-13;Alpha catenin related protein;Alpha N catenin;Alpha N-catenin;Alpha-catenin-related protein;Cadherin associated protein related; Cancer/testis antigen 114;CAP R;CAPR;Catenin (cadherin associated protein) alpha 2;Catenin alpha 2;Catenin alpha-2;CT114;CTNA2_HUMAN;CTNN A2; CTNNA 2;CTNNA2;CTNR;DKFZp686H2198;Catenin- α 1
Observed Band	
Calculated Molecular Weight	
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],

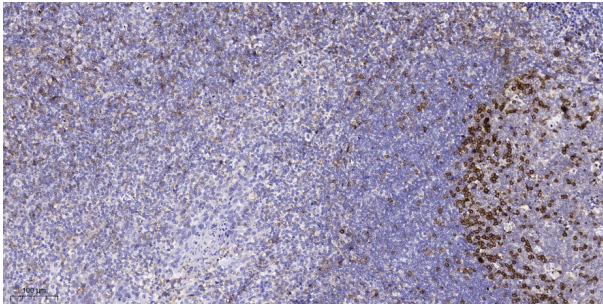
matters needing attention

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



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200 (4° overnight). 2, Tris-EDTA, pH 9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).