



# Anti-alpha 1 Catenin (Internal) polyclonal antibody, clone O4D3 (CABT-B390)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Target</b>	alpha 1 Catenin
<b>Immunogen</b>	Recombinant protein encompassing a sequence within the center region of human alpha 1 Catenin. The exact sequence is proprietary.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse, Rat, Zebrafish
<b>Clone</b>	O4D3
<b>Purification</b>	Purified by antigen-affinity chromatography.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ICC/IF, IHC-Fr, IHC-P, WB
<b>Cellular Localization</b>	Cytoplasm, cytoskeleton, Cell junction, adherens junction, Cell membrane
<b>Positive Control</b>	293T, A431, H1299, HeLaS3, HepG2, NIH-3T3, JC, PC-12
<b>Format</b>	Liquid
<b>Concentration</b>	1 mg/ml (Please refer to the vial label for the specific concentration)
<b>Size</b>	25 µl
<b>Buffer</b>	0.1M Tris, 0.1M Glycine, 10% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.

<b>Preservative</b>	None
<b>Storage</b>	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

## BACKGROUND

<b>Introduction</b>	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. Can associate with both E- and N-cadherins. Originally believed to be a stable component of E-cadherin/catenin adhesion complexes and to mediate the linkage of cadherins to the actin cytoskeleton at adherens junctions. In contrast, cortical actin was found to be much more dynamic than E-cadherin/catenin complexes and CTNNA1 was shown not to bind to F-actin when assembled in the complex suggesting a different linkage between actin and adherence junctions components. The homodimeric form may regulate actin filament assembly and inhibit actin branching by competing with the Arp2/3 complex for binding to actin filaments. May play a crucial role in cell differentiation.
<b>Keywords</b>	CTNNA1;catenin (cadherin-associated protein), alpha 1, 102kDa;CAP102;catenin alpha-1;alpha-catenin;alphaE-catenin;alpha E-catenin;alpha-E-catenin;renal carcinoma antigen NY-REN-13;cadherin-associated protein,102kDa;CAP102;FLJ36832;FLJ52416;CTNNA1

## GENE INFORMATION

<b>Synonyms</b>	CAP102; FLJ36832; FLJ52416; CTNNA1; cadherin-associated protein,102kDa, alpha-catenin; alphaE-catenin; catenin alpha-1; renal carcinoma antigen NY-REN-13; alpha-E-catenin; alpha E-catenin; catenin (cadherin-associated protein), alpha 1, 102kDa
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