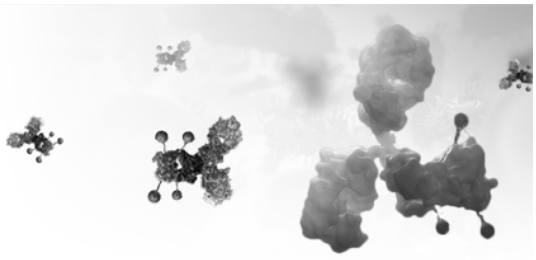

Mouse anti-Mouse α-Catenin monoclonal antibody, clone 6 (CABT-B9364)

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

PRODUCT INFORMATION

Immunogen	Mouse α-Catenin aa. 729-906
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat, Dog, Chicken
Clone	6
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IF; ICC
Format	Liquid
Concentration	250 μg/ml
Size	50 μg, 150 μg
Buffer	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction	The catenins (α-, β-, and γ-) are cytoplasmic proteins that bind to the highly conserved

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	cytoplasmic tail of E-Cadherin. The cadherins, transmembrane adhesion molecules, are found with catenins at adherens junctions (zonula adherens). These junctions are critical for cell-cell adhesion, signal transmission between neighboring cells, and for the anchoring of the actin cytoskeleton. α-Catenin (CAP102) shows homology to vinculin, while β-Catenin is similar to plakoglobin or the Drosophila armadillo gene product. α-Catenin was identified as an E-Cadherin-associated protein, however, it also appears to interact with other cadherin family members. There are at least two subtypes of α-Catenin: αE-Catenin and αN-Catenin. The predominant form is known as αE-Catenin. It is ubiquitously expressed, but at low levels in the nervous system. The expression of αN-Catenin is more restricted and this form predominates in the brain. Increased tyrosine phosphorylation of adherens junction proteins can disrupt catenin-cadherin complexes, leading to changes in cell adhesion properties. It has been noted that down-regulation of this group of proteins often precedes metastasis. In fact, data suggests a correlation between deletions within the α-Catenin gene and the development of prostate cancer.
Keywords	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;

GENE INFORMATION

Entrez Gene ID	1495
UniProt ID	G3XAM7

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