

# CoraLite®594-conjugated Alpha E-Catenin Monoclonal antibody

Catalog Number: **CL594-66221**

## Basic Information

**Catalog Number:**

CL594-66221

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG23603

**GenBank Accession Number:**

BC031262

**GeneID (NCBI):**

1495

**UNIPROT ID:**

P35221

**Full Name:**catenin (cadherin-associated protein),  
alpha 1, 102kDa**Calculated MW:**

906 aa, 100 kDa

**Observed MW:**

95-100 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

2B7B8

**Excitation/Emission maxima  
wavelengths:**

588 nm / 604 nm

## Applications

**Tested Applications:**

FC (Intra)

**Species Specificity:**

human, mouse

## Background Information

Alpha catenin is an essential component of adherens junctions that connects E-cadherin- $\beta$ -catenin complexes with the actin cytoskeleton. It also recruits a range of other important proteins to developing intercellular junctions. Three alpha catenins exist in human: alpha-E-catenin, alpha-N-catenin, and alpha-T-catenin, which share substantial amino-acid sequence similarity but have distinct tissue distribution. alpha-E-catenin is ubiquitously expressed, alpha-N-catenin is restricted to neuronal tissue, and alpha-T-catenin is primarily expressed in heart tissue. Reduced levels of alpha-E-catenin protein seem to be characteristic of many different human cancers, including malignant tumours of the breast, colon, stomach, oesophagus, bladder and liver. In addition, the loss of alpha-E-catenin often correlates with the degree of tumour differentiation and metastasis.

## Storage

**Storage:**

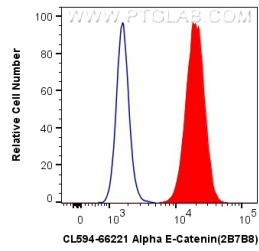
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



1X10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.8 ug CoraLite®594 Anti-Human Alpha E-Catenin (CL594-66221, Clone:2B7B8) (red), or 0.8 ug CoraLite®594 Mouse IgG1 Isotype Control (MOPC-21) (CL594-65124, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).