

**Product Name:** KD-Validated Catenin Alpha 1 Recombinant Rabbit Monoclonal Antibody  
**Catalog #:** KVAb01609

For research use only.

## Summary

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Rabbit                                                                      |
| <b>Application</b>  | WB,FCM,ICC                                                                  |
| <b>Reactivity</b>   | Human,Mouse,Rat                                                             |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Rabbit IgG                                                                  |
| <b>Clonality</b>    | Rabbit mAb                                                                  |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

## Application

|                         |                                                         |
|-------------------------|---------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000 |
| <b>Molecular Weight</b> | Calculated MW: 100.1kDa                                 |

## Antigen Information

|                          |                                                                                                                                                                                                                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | CTNNA1                                                                                                                                                                                                                                                                                                                       |
| <b>Alternative Names</b> | CTNNA1; Catenin Alpha 1; CAP102; Renal Carcinoma Antigen NY-REN-13; Alpha-E-Catenin; Catenin Alpha-1; Catenin (Cadherin-Associated Protein), Alpha 1 (102kD); Catenin (Cadherin-Associated Protein), Alpha 1, 102kDa; Epididymis Secretory Sperm Binding Protein; Cadherin-Associated Protein; Alpha E-Catenin; MDBS2; MDPT2 |
| <b>Gene ID</b>           | 1495.0                                                                                                                                                                                                                                                                                                                       |
| <b>SwissProt ID</b>      | P35221                                                                                                                                                                                                                                                                                                                       |
| <b>Immunogen</b>         | A synthesized peptide derived from human alpha 1                                                                                                                                                                                                                                                                             |

## Background

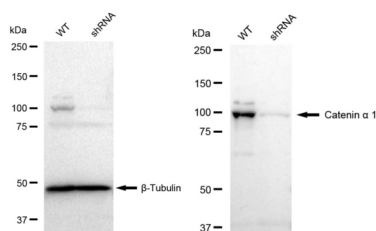
This gene encodes a member of the catenin family of proteins that play an important role in cell adhesion process by

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]

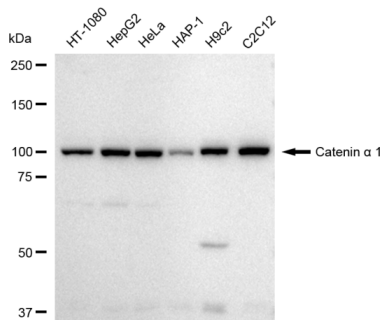
## Research Area

Signal Transduction, Stem Cells, Cancer

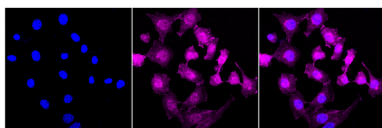
## Image Data



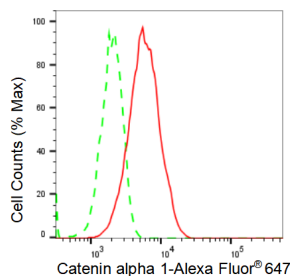
Western blotting analysis using catenin alpha 1 antibody (KVA01609). Catenin alpha 1 expression in wild type (WT) and catenin alpha 1 (CTNNA1) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with catenin alpha 1 antibody (KVA01609, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Catenin alpha 1 antibody (KVA01609). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Catenin alpha 1 antibody (KVA01609, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with Catenin alpha 1 antibody (KVA01609, 1:1,000). Nuclei were stained blue with DAPI; Catenin alpha 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of Catenin alpha 1 expression in C2C12 cells using Catenin alpha 1 antibody (KVA01609, 1:2,000). Green, isotype control; red, Catenin alpha 1.