

## Product datasheet for **LY300128**

### alpha 1 Catenin (CTNNA1) Human Knockdown Lysate

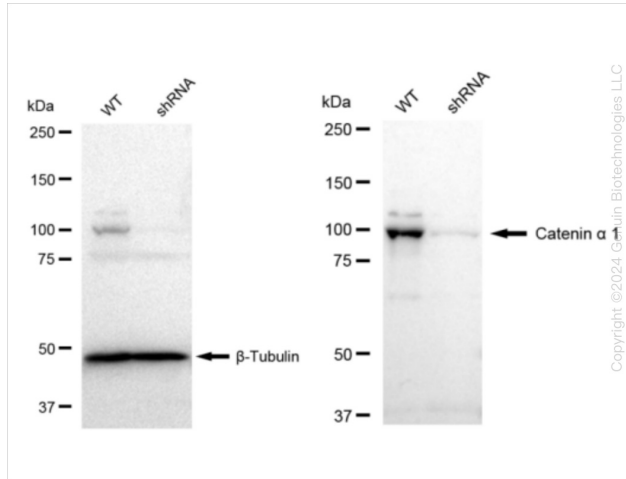
#### Product data:

Product Type:	Knockdown Lysates
Description:	WB-validated CTNNA Knockdown HeLa Cell Lysate
Species:	Human
Expression Host:	HeLa
Tag:	Tag Free
Synonyms:	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
Predicted MW:	100 kDa
Components:	1 vial of 100 ug WT HeLa cell lysate 1 vial of 100 ug CTNNA KD HeLa cell lysate
Storage:	Store at -20 °C for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	1495
UniProt ID:	<a href="#">P35221</a>
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Endometrial cancer, Leukocyte transendothelial migration, Pathways in cancer, Tight junction

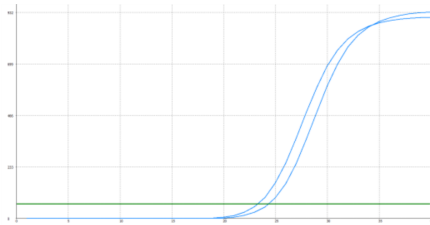


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## Product images:



Western blotting analysis. CTNNA1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting.  $\beta$ -Tubulin served as a loading control. The blots were incubated with primary antibodies against CTNNA1 and  $\beta$ -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.



Genotype	Ct Value
Wild-Type	23.27
Knock-Down	24.34
$\Delta$ Ct (Ct <sub>KD</sub> -Ct <sub>WT</sub> )	1.07
% mRNA Reduction	↓ 52%

RT-qPCR analysis. HeLa cells were infected with CTNNA1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers.  $\Delta$ Ct (Ct<sub>KD</sub>-Ct<sub>WT</sub>) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula:  $(1 - 1/2^{\Delta\text{Ct}}) \times 100\%$ .