

Product datasheet for **LY300222**

Cytokeratin 7 (KRT7) Human Knockdown Lysate

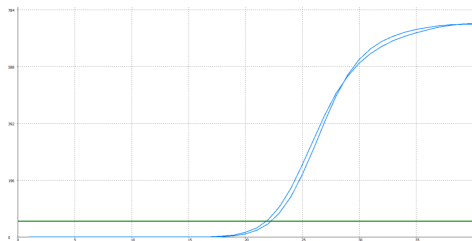
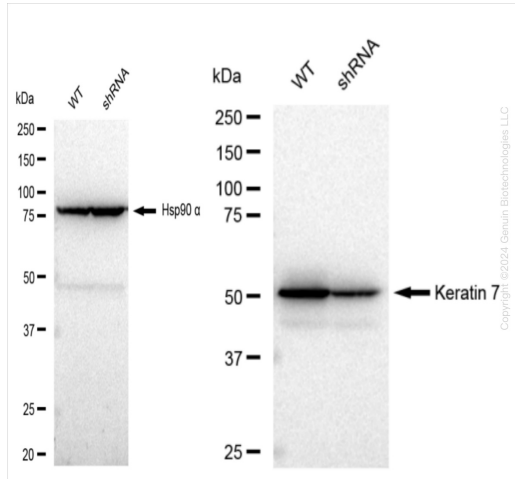
Product data:

| | |
|-------------------|--|
| Product Type: | Knockdown Lysates |
| Description: | WB-validated KRT7 Knockdown HeLa Cell Lysate |
| Species: | Human |
| Expression Host: | HeLa |
| Tag: | Tag Free |
| Synonyms: | KRT7; Keratin 7; CK-7; SCL; K7; Keratin, Type II Cytoskeletal 7; Sarcolectin 2; K2C7 2; CK7 2; Keratin, 55K Type II; Cytoskeletal; Type-II Keratin Kb7; Keratin 7, Type II; Cytokeratin 7; Keratin, Simple Epithelial Type I, K7; Type II Mesothelial Keratin K7; Cytokeratin-7; Keratin-7 |
| Predicted MW: | 51 kDa |
| Components: | 1 vial of 100 ug WT HeLa cell lysate 1 vial of 100 ug KRT7 KD HeLa cell lysate |
| Storage: | Store at -20 °C for two years. |
| Concentration: | Lot-specific |
| Buffer: | IntactProtein Cell-Tissue Lysis buffer |
| Locus ID: | 3855 |
| UniProt ID: | <u>P08729</u> |
| Protein Families: | ES Cell Differentiation/IPS |



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Product images:



| Genotype | Ct Value |
|---------------------------------|----------|
| Wild-Type | 18.07 |
| Knock-Down | 19.62 |
| $\Delta Ct (Ct_{KD} - Ct_{WT})$ | 1.55 |
| % mRNA Reduction | ↓ 66% |

Western blotting analysis. KRT7 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies (Cat#61269, 1:10,000) against KRT7 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).

RT-qPCR analysis. HeLa cells were infected with KRT7-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. $\Delta Ct (Ct_{KD} - Ct_{WT})$ was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1 - 1/2^{\Delta Ct}) \times 100\%$.