

Product datasheet for **LY300466**

USP5 Human Knockdown Lysate

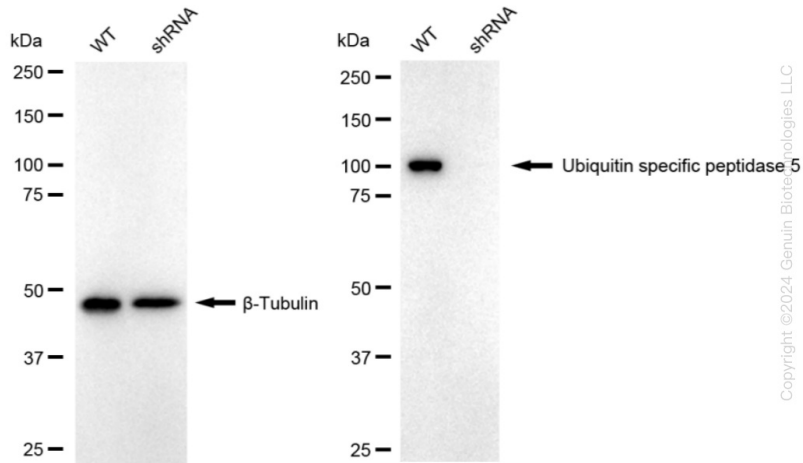
Product data:

| | |
|-------------------|---|
| Product Type: | Knockdown Lysates |
| Description: | WB-validated USP5 Knockdown HeLa Cell Lysate |
| Species: | Human |
| Expression Host: | HeLa |
| Tag: | Tag Free |
| Synonyms: | USP5; Ubiquitin Specific Peptidase 5; Isopeptidase T; IsoT; Ubiquitin-Specific-Processing Protease 5; Ubiquitin Carboxyl-Terminal Hydrolase 5; Deubiquitinating Enzyme 5; Ubiquitin Thioesterase 5; Ubiquitin-Specific Protease-5 (Ubiquitin Isopeptidase T); Ubiquitin Specific Peptidase 5 (Isopeptidase T); Ubiquitin Specific Protease 5 (Isopeptidase T); Testicular Tissue Protein Li 218; Ubiquitin Thiolesterase 5; Ubiquitin Isopeptidase T; EC 3.4.19.12; EC 3.1.2.15; ISOT |
| Predicted MW: | 96 kDa |
| Components: | 1 vial of 100 ug WT HeLa cell lysate 1 vial of 100 ug USP5 KD HeLa cell lysate |
| Storage: | Store at -20 °C for two years. |
| Concentration: | Lot-specific |
| Buffer: | IntactProtein Cell-Tissue Lysis buffer |
| Locus ID: | 8078 |
| UniProt ID: | P45974 |
| Protein Families: | Druggable Genome, Protease |

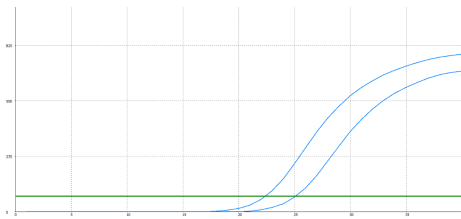


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Product images:



Western blotting analysis. USP5 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β -Tubulin served as a loading control. The blots were incubated with primary antibodies against USP5 and β -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 | 21.79 |
| Knock-Down | 24.28 |
| Δ Ct (Ct _{KD} -Ct _{WT}) | 2.49 |
| % mRNA Reduction | ↓ 82% |

RT-qPCR analysis. HeLa cells were infected with USP5-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. Δ Ct (Ct_{KD}-Ct_{WT}) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1 - 1/2^{\Delta\text{Ct}}) \times 100\%$.