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Product datasheet for LY300391

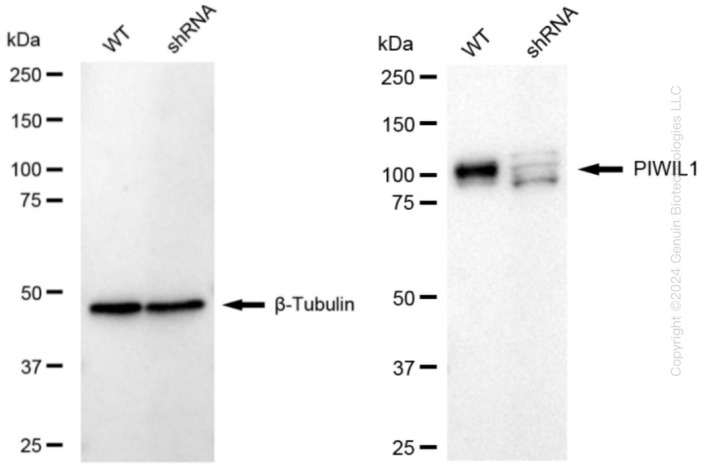
PIWIL1 Human Knockdown Lysate

Product data:

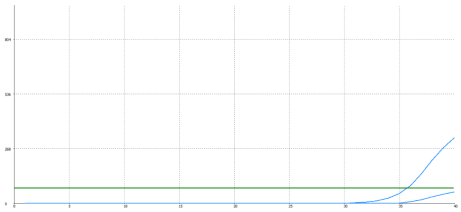
Product Type:	Knockdown Lysates
Description:	WB-validated PIWIL1 Knockdown HeLa Cell Lysate
Species:	Human
Expression Host:	HeLa
Tag:	Tag Free
Synonyms:	Piwi Like RNA-Mediated Gene Silencing 1; HIWI; CT80.1; PIWI; Piwi-Like Protein 1; Piwi (Drosophila)-Like 1; Piwi-Like 1 (Drosophila); Piwi Homolog; EC 3.1.26.-; MIWI
Predicted MW:	99 kDa
Components:	1 vial of 100 ug WT HeLa cell lysate 1 vial of 100 ug PIWIL1 KD HeLa cell lysate
Storage:	Store at -20 ℃ for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	9271
UniProt ID:	Q96J94
Protein Pathways:	Dorso-ventral axis formation

View online »

Product images:



Western blotting analysis. PIWIL1 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 PIWIL1 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	33.70
Knock-Down	36.16
ΔCt (Ct_{KD}-Ct_{WT})	2.46
% mRNA Reduction	⬇ 82%

RT-qPCR analysis. HeLa cells were infected with PIWIL1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: (1-1/2ΔCt) x 100%.