

## Product datasheet for **LY300178**

### GNAQ Human Knockdown Lysate

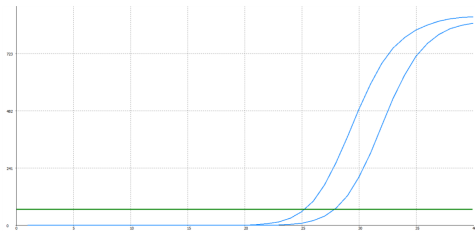
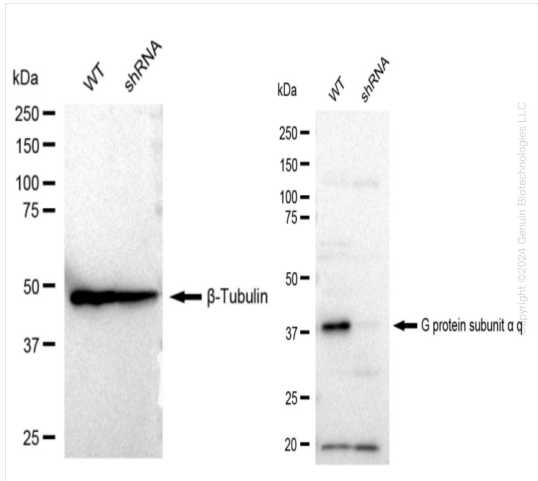
#### Product data:

Product Type:	Knockdown Lysates
Description:	WB-validated GNAQ Knockdown HeLa Cell Lysate
Species:	Human
Expression Host:	HeLa
Tag:	Tag Free
Synonyms:	GNAQ; G Protein Subunit Alpha Q; GAQ; G-ALPHA-Q; Guanine Nucleotide Binding Protein (G Protein), Q Polypeptide; Guanine Nucleotide-Binding Protein G(Q) Subunit Alpha; Guanine Nucleotide-Binding Protein Alpha-Q; Epididymis Secretory Sperm Binding Protein; CMAL; CMC1; SWS
Predicted MW:	42 kDa
Components:	1 vial of 100 ug WT HeLa cell lysate 1 vial of 100 ug GNAQ KD HeLa cell lysate
Storage:	Store at -20 °C for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	2776
UniProt ID:	<a href="#">P50148</a>
Protein Families:	Druggable Genome
Protein Pathways:	Alzheimer's disease, Calcium signaling pathway, Gap junction, GnRH signaling pathway, Huntington's disease, Long-term depression, Long-term potentiation, Melanogenesis, Vascular smooth muscle contraction



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Product images:



Genotype	Ct Value
Wild-Type	25.10
Knock-Down	27.66
$\Delta Ct$ ( $Ct_{KD} - Ct_{WT}$ )	2.56
% mRNA Reduction	↓ 83%

Western blotting analysis. GNAQ 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 (Cat#63616, 1:5,000) against GNAQ and β-Tubulin, 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 GNAQ-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:  $(1 - 1/2^{\Delta Ct}) \times 100\%$ .