

Human INSR Knockdown Cell Lysate

Cat. No. INSR-209HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated INSR Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	This gene encodes a member of the receptor tyrosine kinase family of proteins. The encoded preproprotein is proteolytically processed to generate alpha and beta subunits that form a heterotetrameric receptor. Binding of insulin or other ligands to this receptor activates the insulin signaling pathway, which regulates glucose uptake and release, as well as the synthesis and storage of carbohydrates, lipids and protein. Mutations in this gene underlie the inherited severe insulin resistance syndromes including type A insulin resistance syndrome, Donohue syndrome and Rabson-Mendenhall syndrome. Alternative splicing results in multiple transcript variants.
Form	Cell-Tissue Lysis buffer
Molecular Mass	156 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.

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Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg INSR KD HeLa cell lysate
Protein Families	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways	Adherens junction, Insulin signaling pathway, Type II diabetes mellitus
Lysate QC	RT-qPCR; Western Blotting (WB)
GENE INFORMATION	
Gene Name	INSR insulin receptor [Homo sapiens (human)]
Official Symbol	INSR
Synonyms	INSR; insulin receptor; CD220; IR; HHF5;
Gene ID	3643
mRNA Refseq	NM_000208
Protein Refseq	NP_000199
MIM	147670
UniProt ID	P06213

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