

Human IDE Knockdown Cell Lysate

Cat. No. IDE-205HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated IDE Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	This gene encodes a zinc metallopeptidase that degrades intracellular insulin, and thereby terminates insulins activity, as well as participating in intercellular peptide signalling by degrading diverse peptides such as glucagon, amylin, bradykinin, and kallidin. The preferential affinity of this enzyme for insulin results in insulin-mediated inhibition of the degradation of other peptides such as beta-amyloid. Deficiencies in this protein's function are associated with Alzheimer's disease and type 2 diabetes mellitus but mutations in this gene have not been shown to be causative for these diseases. This protein localizes primarily to the cytoplasm but in some cell types localizes to the extracellular space, cell membrane, peroxisome, and mitochondrion. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described but have not been experimentally verified.
Form	Cell-Tissue Lysis buffer
Molecular Mass	118 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

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	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.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg IDE KD HeLa cell lysate
Protein Families	Druggable Genome, Protease
Protein Pathways	Alzheimer's disease
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	IDE insulin-degrading enzyme [Homo sapiens (human)]
Official Symbol	IDE
Synonyms	IDE; insulin-degrading enzyme; insulysin; insulinase; insulin protease; Abeta-degrading protease; INSULYSIN; FLJ35968;
Gene ID	3416
mRNA Refseq	NM_001165946
Protein Refseq	NP_001159418

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MIM	146680
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UniProt ID	P14735
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