

Human LGMN Knockdown Cell Lysate

Cat. No. LGMN-225HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated LGMN Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	This gene encodes a cysteine protease that has a strict specificity for hydrolysis of asparaginyl bonds. This enzyme may be involved in the processing of bacterial peptides and endogenous proteins for MHC class II presentation in the lysosomal/endosomal systems. Enzyme activation is triggered by acidic pH and appears to be autocatalytic. Protein expression occurs after monocytes differentiate into dendritic cells. A fully mature, active enzyme is produced following lipopolysaccharide expression in mature dendritic cells. Overexpression of this gene may be associated with the majority of solid tumor types. This gene has a pseudogene on chromosome 13. Several alternatively spliced transcript variants have been described, but the biological validity of only two has been determined. These two variants encode the same isoform.
Form	Cell-Tissue Lysis buffer
Molecular Mass	49 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

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	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 LGMN KD HeLa cell lysate
Protein Families	Druggable Genome, Protease
Protein Pathways	Antigen processing and presentation, Lysosome
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	LGMN legumain [Homo sapiens (human)]
Official Symbol	LGMN
Synonyms	LGMN; legumain; protease, cysteine, 1 (legumain), PRSC1; LGMN1; cysteine protease 1; protease, cysteine 1; asparaginyl endopeptidase; protease, cysteine, 1 (legumain); AEP; PRSC1;
Gene ID	5641
mRNA Refseq	NM_001008530
Protein Refseq	NP_001008530

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MIM	602620
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UniProt ID	Q99538
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