

# Human LGMN Knockdown Cell Lysate

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

## SPECIFICATION

<b>Product Overview</b>	WB-validated LGMN Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>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.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	49 kDa
<b>Notes</b>	<p>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</p>

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	equal amount of total proteins.
<b>Storage</b>	Store at -20 centigrade for two years.
<b>Concentration</b>	Lot-specific
<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg LGMN KD HeLa cell lysate
<b>Protein Families</b>	Druggable Genome, Protease
<b>Protein Pathways</b>	Antigen processing and presentation, Lysosome
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

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

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<b>MIM</b>	602620
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<b>UniProt ID</b>	Q99538
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