

## LRRC25 Protein, Human (HEK293, His)

Cat. No.:	HY-P70876
Synonyms:	Leucine-rich repeat-containing protein 25; Monocyte and plasmacytoid-activated protein; MAPA; FLJ38116; UNQ6169/PRO20174
Species:	Human
Source:	HEK293
Accession:	Q8N386 (L21-T165)
Gene ID:	126364
Molecular Weight:	25-40 kDa

### PROPERTIES

AA Sequence	<div> <div>L E P S C T V S S A</div> <div>S N V I L L D L S G</div> <div>D G A L A A R C D L</div> <div>D T T S S Q H N L S</div> </div> <div> <div>D V D W N A E F S A</div> <div>N G L R E L P V T F</div> <div>D L Q A D C N C A L</div> <div>A F L E V S C A P G</div> </div> <div> <div>T C L N F S G L S L</div> <div>F A H L Q K L E V L</div> <div>E S W H D I R R D N</div> <div>L A S A T</div> </div> <div> <div>S L P H N Q S L R A</div> <div>N V L R N P L S R V</div> <div>C S G Q K P L L C W</div> </div>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>LRRC25 emerges as a crucial regulator in dampening RLR-mediated type I interferon signaling pathways, exerting its inhibitory influence by orchestrating the autophagic degradation of RIGI. The protein, through its specific interaction with ISG15-associated RIGI, facilitates the binding of RIGI to the autophagic cargo receptor p62/SQSTM1, leading to the selective autophagic degradation of RIGI. In addition to its role in immune modulation, LRRC25 plays a pivotal part in restraining the NF-kappa-B signaling pathway and mitigating inflammatory responses by fostering the degradation of p65/RELA. Notably, LRRC25 engages in direct interactions with RIGI, SQSTM1, and p65/RELA, underscoring its multifaceted involvement in orchestrating protein degradation processes and fine-tuning crucial cellular signaling cascades.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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