

Recombinant E. coli LON Protein

Catalog #	Source	Reactivity	Applications
CRP1910	E. coli	E. coli	E, WB, SDS-PAGE, MS

Description Recombinant E. coli LON Protein is produced by our E.coli expression system and the target gene encoding Asn2-Lys784 is expressed with a 6His tag at the C-terminus.

Form Supplied as a 0.2 µM filtered solution of 50mM Tris-HCl, 100mM KCl, 10% Glycerol, pH 7.5.

Gene Symbol LON

Alternative Names capR; deg; lopA; muc; Lon protease; ATP-dependent protease La

Entrez Gene 945085 (E. coli)

SwissProt POA9M0 (E. coli)

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

Chemical Structure MGNPERSERI EIPVLPLRDV VVYPHMVIPL FVGREKSIRC LEAAMDHDKK IMLVAQKEAS
 TDEPGVNDLF TVGTVASILQ MLKLPDGTVK VLVEGLQRRAR ISALSDNGEH FSAKAEYLES
 PTIDEREQEV LVRTAISQFE GYIKLNKKIP PEVLTSLSNSI DDPARLADTI AAHMPLKLAD
 KQSVLEMSDV NERLEYLMAM MESEIDLLQV EKIRNRVKK QMEKSQREYY LNEQMKAIQK
 ELGEMDDAPD ENEALKRKID AAKMPKEAKE KAEAEQKQK MMSPM SAEAT
 VVRGYIDWMV QVPWNARSKV KKDLRQAQEI LDTDHYGLER VKDRILEYLA VQSRV N KIKG
 PILCLVGPPG VGKTSLGQSI AKATGRKYVR MALGGVRDEA EIRGHRRTYI GSMPGKLIQK
 MAKVGVKNPL FLLDEIDKMS SDMRGDPASA LLEVLDPEQN VAFSDHYLEV DYDLS DVMFV
 ATNSNMNIPA PLLDRMEVIR LSGYTEDEKL NIAKRHLLPK QIERNALKKG ELTVDDSAII
 GIIRYYTREA GVRGLEREIS KLCRKAVKQL LLDKSLKHIE INGDNLHDYL GVQRFDYGRA
 DNENRVGQVT GLAWTEVGGD LLTIETACVP GKGKLTGTGS LGEVMQESIQ AALTVVRARA
 EKLGINPDFY EKRDIVHVP EGATPKDGPS AGIAMCTALV SCLTGNPVRA DVAMTGEITL

Application key: E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

Species reactivity key: H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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Product Data Sheet

RGQVLPIGGL KEKLLAAHRG GIKTVLIPFE NKRDL EEIPD NVIADLDIHP VKRIEEVLT L

ALQNEPSGMQ VVTAKLEHHH HHH

Quality Control

Endotoxin: Less than 0.1 ng/ μ g (1 IEU/ μ g) as determined by LAL test.

Directions for Use

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μ g/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Storage/Stability

Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8°C for 2-7 days.

Aliquots of reconstituted samples are stable at -20°C for 3 months.

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