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Cathepsin D is partly endocytosed by the LRP1 receptor and inhibits LRP1-regulated intramembrane proteolysis.

Danielle Derocq, Christine Prébois, Mélanie Beaujouin, Valérie Laurent-Matha, Sophie Pattingre, Gary Smith, Emmanuelle Liaudet-Coopman

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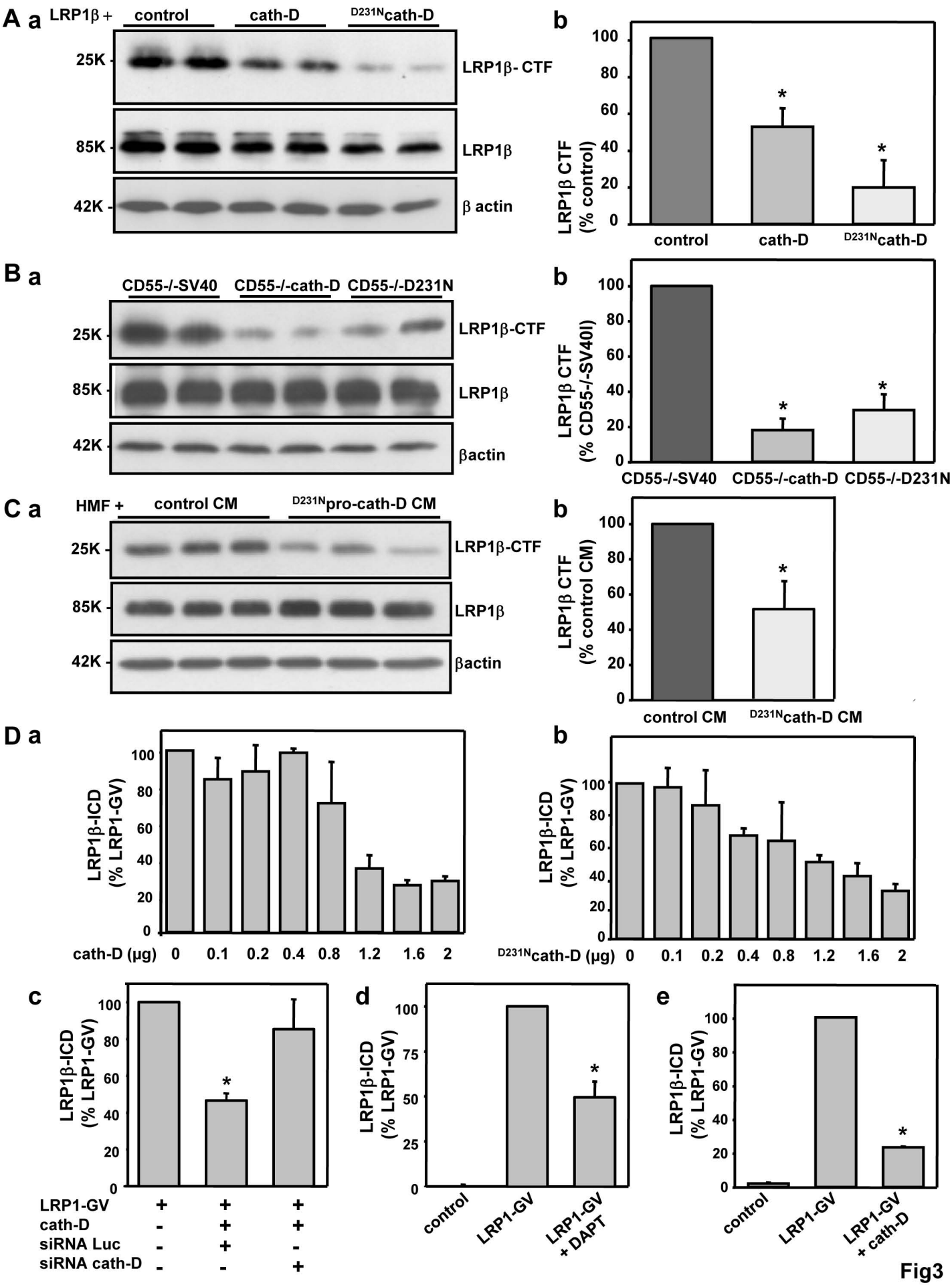
A a
LRP1β +
control
cath-D
D231Ncath-D
25K
85K
42K
LRP1β- CTF
LRP1β
β actin
b
LRP1β CTF (% control)
control
cath-D
D231Ncath-D
B a
CD55-/-SV40
CD55-/-cath-D
CD55-/-D231N
LRP1β-CTF
βactin
LRP1β CTF (% CD55-/-SV40l)
C a
HMF +
control CM
D231Npro-cath-D CM
LRP1β CTF (% control CM)
control CM
D231Ncath-D CM
D a
LRP1β-ICD (% LRP1-GV)
cath-D (μg) 0 0.1 0.2 0.4 0.8 1.2 1.6 2
D231Ncath-D (μg) 0 0.1 0.2 0.4 0.8 1.2 1.6 2
c
LRP1-GV + + +
cath-D - + +
siRNA Luc - + -
siRNA cath-D - - +
d
control
LRP1-GV
LRP1-GV + DAPT
e
control
LRP1-GV
LRP1-GV + cath-D

Fig3