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Anti-LZTR1 Antibody

Catalog # AP50731

Product Information

Application	WB, IF/IC
Primary Accession	Q8N653
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	94719

Additional Information

Gene ID	8216
Other Names	TCFL2; Leucine-zipper-like transcriptional regulator 1; LZTR-1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human LZTR1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

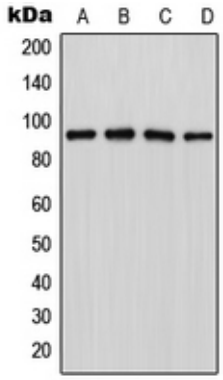
Name	LZTR1 {ECO:0000303|PubMed:7633402, ECO:0000312|HGNC:HGNC:6742}
Function	Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex that mediates ubiquitination of Ras GTPases (M-Ras/MRAS, K-Ras/KRAS, N-Ras/NRAS and H-Ras/HRAS) and Ras- like protein RIT1 (PubMed:30442762, PubMed:30442766, PubMed:30481304, PubMed:40934300). Acts as a negative regulator of RAS-MAPK signaling by controlling Ras levels and decreasing Ras association with membranes (PubMed:30442762, PubMed:30442766, PubMed:30481304, PubMed:40934300).
Cellular Location	Endomembrane system. Recycling endosome. Golgi apparatus

References

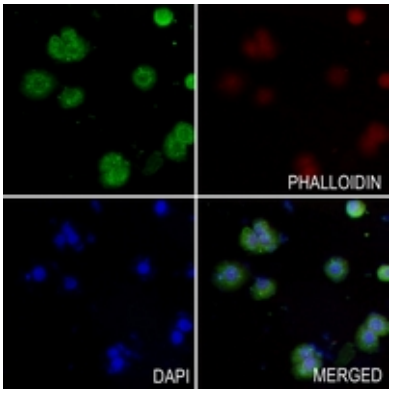
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Kurahashi H.,et al.Hum. Mol. Genet. 4:541-549(1995).
Van Damme P.,et al.Proc. Natl. Acad. Sci. U.S.A. 109:12449-12454(2012).

Images



Western blot analysis of LZTR1 expression in Jurkat (A), MCF7 (B), NIHC3T3 (C), PC12 (D) whole cell lysates. (Predicted band size: 94 kD; Observed band size: 94 kD)



Immunofluorescent analysis of LZTR1 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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