

**LZTR1 Antibody**  
**Catalog # ASC11073****Specification****LZTR1 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q8N653</a>
Other Accession	<a href="#">CAJ86451</a> , <a href="#">90403050</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	LZTR1 antibody can be used for detection of LZTR1 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL.

**LZTR1 Antibody - Additional Information**

Gene ID	8216
Target/Specificity	
LZTR1;	

**Reconstitution & Storage**

LZTR1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

LZTR1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**LZTR1 Antibody - 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 (K-Ras/KRAS, N-Ras/NRAS and H-Ras/HRAS) (PubMed:<a href="http://www.uniprot.org/citations/30442762" target="\_blank">30442762</a>, PubMed:<a href="http://www.uniprot.org/citations/30442766" target="\_blank">30442766</a>, PubMed:<a href="http://www.uniprot.org/citations/30481304" target="\_blank">30481304</a>). Is a negative regulator of RAS-MAPK signaling that acts by controlling Ras levels and decreasing Ras association with membranes (PubMed:<a href="http://www.uniprot.org/citations/30442762" target="\_blank">30442762</a>, PubMed:<a href="http://www.uniprot.org/citations/30442766" target="\_blank">30442766</a>, PubMed:<a href="http://www.uniprot.org/citations/30481304" target="\_blank">30481304</a>).

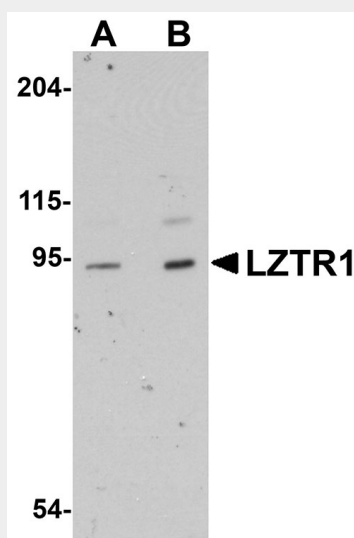
**Cellular Location**

Endomembrane system. Recycling endosome. Golgi apparatus

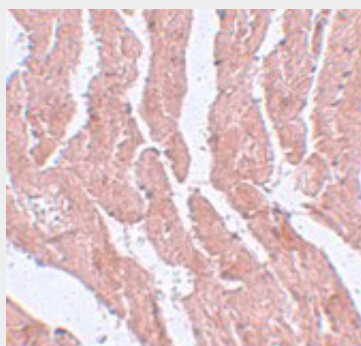
**LZTR1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**LZTR1 Antibody - Images**

Western blot analysis of LZTR1 in human heart tissue lysate with LZTR1 antibody at (A) 1 and (B) 2  $\mu$ g/mL.



Immunohistochemistry of LZTR1 in mouse heart tissue with LZTR1 antibody at 5  $\mu$ g/mL.

**LZTR1 Antibody - Background**

LZTR1 Antibody: LZTR1, a member of the BTB-kelch superfamily, was initially described as a

putative transcriptional regulator based on weak homology to members of the basic leucine zipper-like family, the encoded protein subsequently has been shown to localize exclusively to the Golgi network where it may help stabilize the Golgi complex. Deletion of this gene may be associated with DiGeorge syndrome, a developmental field defect involving the third and fourth pharyngeal pouches, causing the absence of thymus and parathyroid glands, congenital cardiac abnormalities and facial dysmorphism. LZTR1 is tyrosine phosphorylated and subsequently degraded upon induction of apoptosis.

#### **LZTR1 Antibody - References**

Kurahashi H, Akagi K, Inazawa J, et al. Isolation and characterization of a novel gene deleted in DiGeorge syndrome. Hum. Mol. Genet.1995; 4:541-9.

Nacak TG, Leptien K, Fellner D, et al. The BTB-kelch protein LZTR-1 is a novel Golgi protein that is degraded upon induction of apoptosis. J. Biol. Chem.2006; 281:5065-71.