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LZTS2 Antibody
Catalog # ASC11420

Specification

LZTS2 Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	Q9BRK4
Other Accession	NP_115805, 45331215
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**LZTS2 antibody can be used for detection of EPAC1 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.**

LZTS2 Antibody - Additional Information

Gene ID **84445**

Target/Specificity
LZTS2; LZTS2 antibody is predicted to not cross-react with other LZTS family members

Reconstitution & Storage
LZTS2 antibody can be stored at 4℃ for three months and -20℃, 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
LZTS2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

LZTS2 Antibody - Protein Information

Name LZTS2 {ECO:0000255|HAMAP-Rule:MF_03026}

Function
Negative regulator of katanin-mediated microtubule severing and release from the centrosome. Required for central spindle formation and the completion of cytokinesis. May negatively regulate axonal outgrowth by preventing the formation of microtubule bundles that are necessary for transport within the elongating axon. Negative regulator of the Wnt signaling pathway. Represses beta-catenin-mediated transcriptional activation by promoting the nuclear exclusion of beta-catenin.

Cellular Location
Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Localized to the centrosome throughout the cell cycle. Localized to the midbody in cells undergoing

cytokinesis

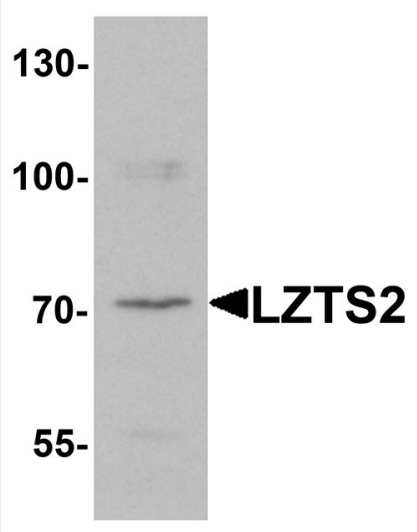
Tissue Location
Highly expressed in prostate and testis, and at slightly lower levels in spleen, thymus, uterus, small intestine and colon.

LZTS2 Antibody - Protocols

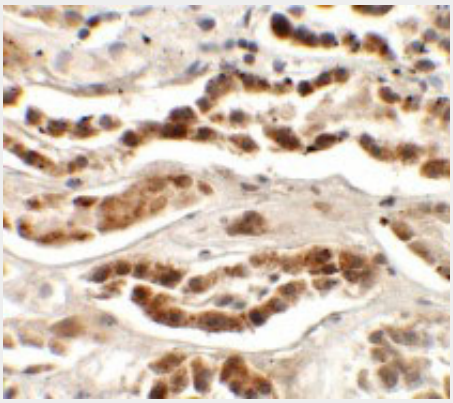
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LZTS2 Antibody - Images

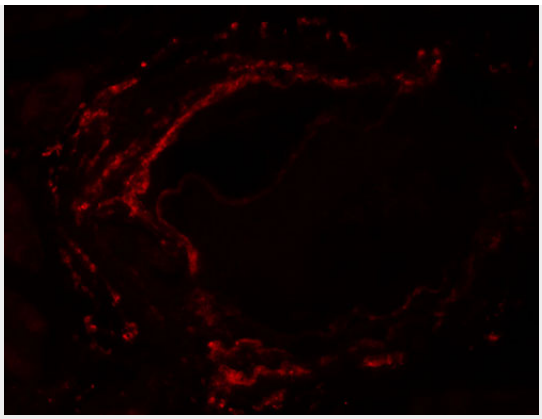


Western blot analysis of LZTS2 in human kidney tissue lysate with LZTS2 antibody at 1 µg/mL.



Immunohistochemistry of LZTS2 in human kidney tissue with LZTS2 antibody at 2.5 µg/mL.

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Immunofluorescence of LZTS2 in human kidney tissue with LZTS2 antibody at 20 µg/mL.

LZTS2 Antibody - Background

LZTS2 Antibody: The leucine zipper putative tumor suppressor 2 (LZTS2, also known as LAPSER1), a member of the LZTS family, is a negative regulator of the Wnt signaling pathway. It represses beta-catenin-mediated transcriptional activation by promoting the nuclear exclusion of beta-catenin. LZTS2 is involved in cytokinesis and regulates katanin-mediated microtubule severing and release from the centrosome. LZTS2 may negatively regulate axonal outgrowth by preventing the formation of microtubule bundles that are necessary for transport within the elongating axon. LZTS2 is highly expressed in testis and prostate, but it is deleted in multiple cancers, including prostate tumors, suggesting that LZTS2 acts as a potential tumor suppressor.

LZTS2 Antibody - References

Thyssen G, Li TH, Lehmann L, et al. LZTS2 is a novel beta-catenin-interacting protein and regulates the nuclear export of beta-catenin. Mol. Cell. Biol. 2006; 26:8857-67
Sudo H and Maru Y. LAPSER1/LZTS2: a pluripotent tumor suppressor linked to the inhibition of katanin-mediated microtubule severing. Hum. Mol. Genet. 2008; 17:2524-40.
Sudo H and Maru Y. LAPSER1 is a putative cytokinetic tumor suppressor that shows the same centrosome and midbody subcellular localization pattern as p80 Katanin. FASEB J. 2007; 21:2086-100.
Cabeza-Arvelaiz Y, Thompson TC, Sepulveda JL, et al. LAPSER1: a novel candidate tumor suppressor gene from 10q24.3. Oncogene 2001; 20:6707-17.