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UVRAG Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS16426

Specification

UVRAG Antibody (C-Terminus) - Product Information

Application	**IF**
Primary Accession	Q9P2Y5
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**78kDa KDa**

UVRAG Antibody (C-Terminus) - Additional Information

Gene ID 7405

Other Names
UV radiation resistance-associated gene protein, p63, UVRAG

Target/Specificity
UVRAG antibody is human and mouse reactive.

Reconstitution & Storage
Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions
UVRAG Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

UVRAG Antibody (C-Terminus) - Protein Information

Name UVRAG

Function
Versatile protein that is involved in regulation of different cellular pathways implicated in membrane trafficking. Involved in regulation of the COPI-dependent retrograde transport from Golgi and the endoplasmic reticulum by associating with the NRZ complex; the function is dependent on its binding to phosphatidylinositol 3- phosphate (PtdIns(3)P) (PubMed:16799551, PubMed:18552835, PubMed:20643123, PubMed:24056303, PubMed:28306502). During autophagy acts as a regulatory subunit of the alternative PI3K complex II (PI3KC3-C2) that mediates formation of phosphatidylinositol 3-phosphate and is believed to be involved in maturation of autophagosomes and endocytosis. Activates lipid kinase activity of PIK3C3 (PubMed:16799551,

PubMed:20643123, PubMed:24056303, PubMed:28306502). Involved in the regulation of degradative endocytic trafficking and cytokinesis, and in regulation of ATG9A transport from the Golgi to the autophagosome; the functions seems to implicate its association with PI3KC3-C2 (PubMed:16799551, PubMed:20643123, PubMed:24056303). Involved in maturation of autophagosomes and degradative endocytic trafficking independently of BECN1 but depending on its association with a class C Vps complex (possibly the HOPS complex); the association is also proposed to promote autophagosome recruitment and activation of Rab7 and endosome-endosome fusion events (PubMed:18552835, PubMed:28306502). Enhances class C Vps complex (possibly HOPS complex) association with a SNARE complex and promotes fusogenic SNARE complex formation during late endocytic membrane fusion (PubMed:24550300). In case of negative- strand RNA virus infection is required for efficient virus entry, promotes endocytic transport of virions and is implicated in a VAMP8- specific fusogenic SNARE complex assembly (PubMed:24550300).

Cellular Location
Late endosome. Lysosome. Cytoplasmic vesicle, autophagosome. Early endosome. Endoplasmic reticulum. Midbody. Chromosome, centromere. Note=Colocalizes with RAB9-positive compartments involved in retrograde transport from late endosomes to trans-Golgi network. Colocalization with early endosomes is only partial (PubMed:24056303). Recruited to autophagosome following interaction with RUBCNL/PACER (PubMed:28306502)

Tissue Location
Highly expressed in brain, lung, kidney and liver.

UVRAG Antibody (C-Terminus) - 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

UVRAG Antibody (C-Terminus) - Images

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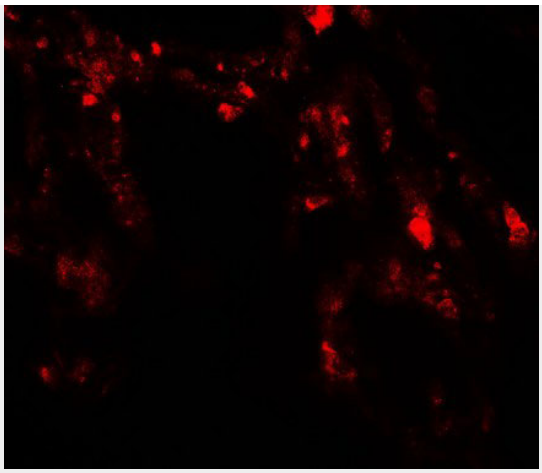

Immunofluorescence of UVRAG in human lung tissue with UVRAG antibody at 20 ug/ml.

UVRAG Antibody (C-Terminus) - References

Perelman B.,et al.Genomics 41:397-405(1997).
Iida A.,et al.Hum. Genet. 106:277-287(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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Itakura E.,et al.Mol. Biol. Cell 19:5360-5372(2008).