

UVRAG (K699) polyclonal antibody

Catalog: AP0786

Host: Rabbit

Reactivity: Human,Rat,Mouse

BackGround:

Autophagy is a catabolic process for the autophagosome-lysosomal degradation of bulk cytoplasmic contents. It is generally activated by conditions of nutrient deprivation but has also been associated with a number of physiological processes including development, differentiation, neurodegeneration, infection and cancer. The molecular machinery of autophagy was largely discovered in yeast and referred to as autophagy-related (Atg) genes. These proteins are involved in the formation of cytoplasmic vacuoles called autophagosomes that are delivered to lysosomes for degradation. The class III type phosphoinositide 3-kinase (PI3KC3)/Vsp34 regulates vacuolar trafficking as well as autophagy. Multiple proteins have been shown to be associated with Vsp34, including: p105/Vsp15, Beclin-1, UVRAG, Atg14, and Rubicon, which can determine Vsp34 function. UVRAG (UV radiation resistance-associated gene) is associated with the Beclin-1/PI3KC3 complex and promotes PI3KC3 enzymatic activity and autophagy, while suppressing proliferation. Beclin-1 binding to UVRAG promotes both autophagosome maturation and endocytic trafficking. UVRAG is also a potential tumor suppressor protein with frameshift mutations observed in colon and gastric carcinomas.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.

Molecular Weight:

~ 90 kDa

Swiss-Prot:

Q9P2Y5

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:1000~1:2000

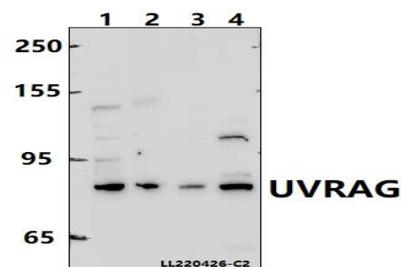
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

UVRAG (K699) polyclonal antibody detects endogenous levels of UVRAG protein.

DATA:



Western blot (WB) analysis of UVRAG (K699) polyclonal antibody at 1:2000 dilution

Lane1:MCF-7 whole cell lysate(40ug)

Lane2:Jurkat whole cell lysate(40ug)

Lane3:BV2 whole cell lysate(40ug)

Lane4:C6 whole cell lysate(40ug)

Note:

For research use only, not for use in diagnostic procedure.

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