

Product datasheet for **TA392502**

UVRAG Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:1000~1:2000
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to Human UVRAG.
Specificity:	UVRAG (K699) polyclonal antibody detects endogenous levels of UVRAG protein.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 90 kDa
Gene Name:	UV radiation resistance associated
Database Link:	Entrez Gene 7405 Human Q9P2Y5



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Background:

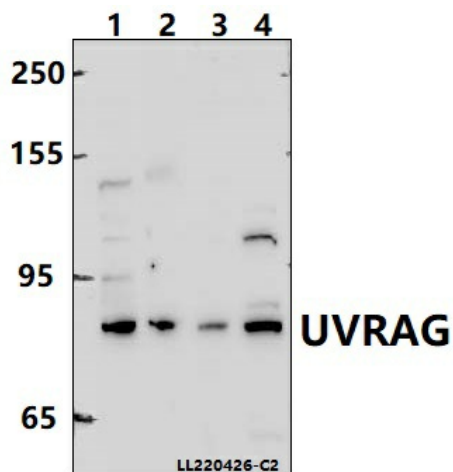
Autophagy is a catabolic process for the autophagosomic-lysosomal degradation of bulk cytoplasmic contents. It is generally activated by conditions of nutrient deprivation but has also been associated with a number of physiological processes including development, differentiation, neurodegeneration, 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)/Vps34 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.

Synonyms:

p63; UV radiation resistance-associated gene protein; UVRAG

Note:

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

Product images:

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)