10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

UVRAG Antibody
Catalog # ASM10494

Specification

UVRAG Antibody - Product Information

Application	**WB, ICC**
Primary Accession	Q9P2Y5
Other Accession	NP_003360.2
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**

Description
Rabbit Anti-Human UVRAG Polyclonal

Target/Specificity
Predicted molecular weight at ~78.1kDa. Observed molecular weights in the 75-90kDa range.

Other Names
DHTX Antibody, p63 Antibody, UV radiation resistance associated Antibody, UVRAG_HUMAN Antibody

Immunogen
Synthetic peptide from the C-terminal of human UVRAG

Purification
Peptide Affinity Purified

Storage	**-20ºC**

Storage Buffer
PBS, 50% glycerol, 0.09% sodium azide

Shipping Temperature	**Blue Ice or 4ºC**

Certificate of Analysis
A 1:1000 dilution of SPC-605 was sufficient for detection of UVRAG on 293T Rapamycin treated lysates using Goat anti-rabbit IgG:HRP as the secondary antibody.

Cellular Localization
Endosome | Lysosome | Endoplasmic reticulum | Nucleus | Chromosome | Centromere

UVRAG Antibody - Protocols

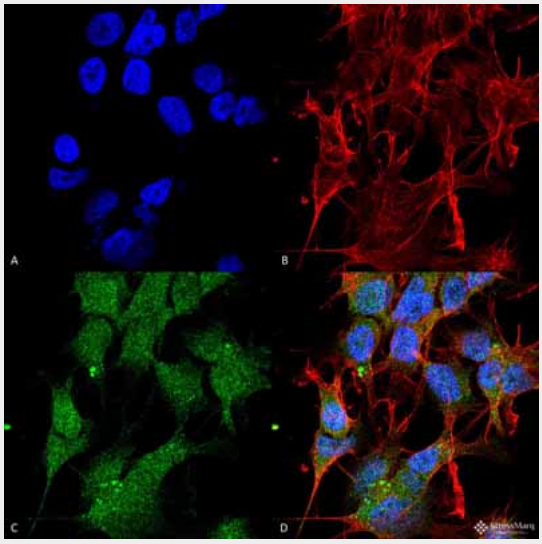
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation

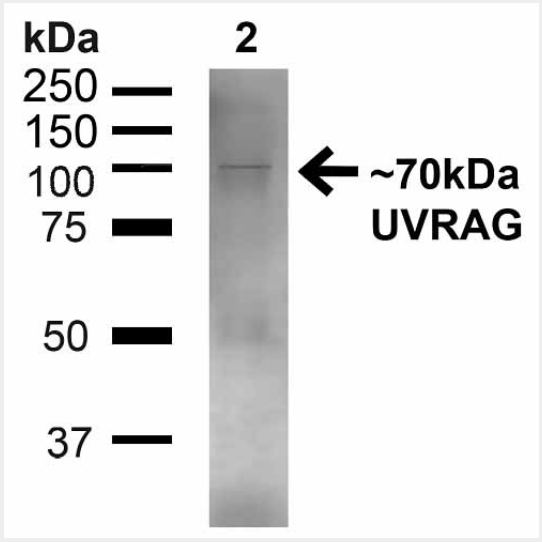
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

- Flow Cytomety
- Cell Culture

UVRAG Antibody - Images

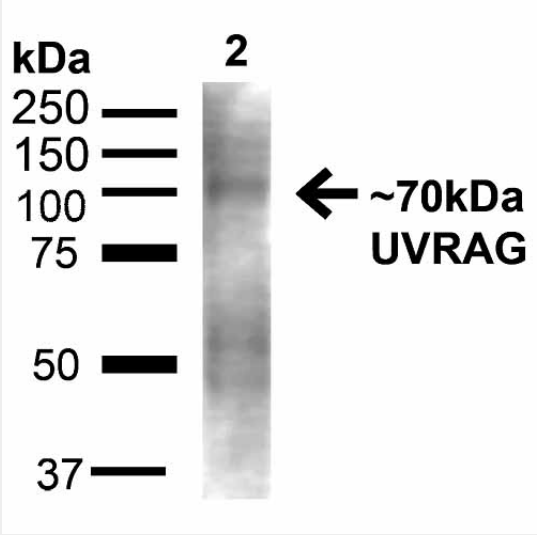


Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-UVRAG Polyclonal Antibody (ASM10494). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Rabbit Anti-UVRAG Polyclonal Antibody (ASM10494) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Rabbit ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Late Endosome, Lysosome, Early Endosome. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) UVRAG Antibody (D) Composite.



Western blot analysis of Human 293T showing detection of ~70kDa UVRAG protein using Rabbit Anti-UVRAG Polyclonal Antibody (ASM10494). Lane 1: MW Ladder. Lane 2: Human 293T (20 µg). Load: 20 µg. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-UVRAG Polyclonal Antibody (ASM10494) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~70kDa.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Western blot analysis of Rat Liver showing detection of ~70kDa UVRAG protein using Rabbit Anti-UVRAG Polyclonal Antibody (ASM10494). Lane 1: MW Ladder. Lane 2: Rat Liver (20 µg). Load: 20 µg. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-UVRAG Polyclonal Antibody (ASM10494) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~70kDa.

UVRAG Antibody - Background

UVRAG (UV radiation resistance-associated gene) is associated with the Beclin-1/PI3KC3 complex and promotes PI3KC3 enzymatic activity and autophagy, while suppressing proliferation (1). Beclin-1 binding to UVRAG promotes both autophagosome maturation and endocytic trafficking (2). UVRAG is also a potential tumor suppressor protein with frameshift mutations observed in colon and gastric carcinomas (3-4). It is highly expressed in the brain, lung, kidney and liver.

UVRAG Antibody - References

1. Liang, C. et al. (2008) Nat Cell Biol. 10: 776-87.
2. Ionov, Y. et al. (2004) Oncogene. 23: 639-45.
3. Kim, M.S. et al. (2008) Hum Pathol. 39: 1059-63.