

**Datasheet for 600-401-B43S****UBE2J2 Antibody****Overview**

|                      |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-Ubiquitin-Conjugating Enzyme E2 J2 (Ube2j2) (RABBIT) Antibody - 600-401-B43S |
| <b>Item No.:</b>     | 600-401-B43S                                                                      |
| <b>Size:</b>         | 25 µL                                                                             |
| <b>Applications:</b> | ELISA, IP, WB                                                                     |
| <b>Reactivity:</b>   | Human, Mouse, Rat                                                                 |
| <b>Host Species:</b> | Rabbit                                                                            |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Ube2j2 and Ube2j1 are homologs of the yeast ubiquitin-conjugating enzyme UBC6, which catalyzes the covalent attachment of ubiquitin to other proteins. These proteins constitute a distinct family of ubiquitin-conjugating enzymes sharing a conserved non-canonical active site sequence and a C-terminal trans-membrane domain. By analogy with yeast UBC6, Ube2j1 and Ube2j2 are localized to the endoplasmic reticulum and seem to function in the selective degradation of misfolded membrane proteins and in general mediation of the stress response. |
| <b>Synonyms:</b>     | rabbit anti-UBE2J2 antibody, rabbit anti-E2 J2 antibody, rabbit anti-Ubiquitin conjugating enzyme E2J2 antibody, Non-canonical ubiquitin-conjugating enzyme 2, Ube2j2, E2 ubiquitin-conjugating enzyme J2, NCUBE-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**Target Details**

|                        |                    |
|------------------------|--------------------|
| <b>Gene Name:</b>      | UBE2J2             |
| <b>Reactivity:</b>     | Human, Mouse, Rat  |
| <b>Immunogen Type:</b> | Conjugated Peptide |

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b>          | This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of the human Ube2j2 protein.                                                                                                                                                                                                                                                                                        |
| <b>Purity/Specificity:</b> | This affinity purified antibody is directed against human Ube2j2 protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with Ube2j2 protein from human, horse, opossum, cattle, dog, mouse, rat, macaque, salmon, chicken, zebra finch, Xenopus and platypus based on 100% homology with the immunizing sequence. Reactivity against homologues from other sources is not known. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">NCBI - 251757431</a></li><li>• <a href="#">UniProtKB - Q8N2K1</a></li><li>• <a href="#">GenelD - 118424</a></li></ul>                                                                                                                                                                                                                                                                                                                |

## Application Details

|                             |                                                                                                                                                                                                                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | ELISA, IP, WB                                                                                                                                                                                                                                                                                                                 |
| <b>Application Note:</b>    | This affinity purified antibody has been tested for use in ELISA, western blotting and immunoprecipitation. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 29 kDa in size corresponding to Ube2j2 protein by western blotting in the appropriate cell lysate or extract. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                               |
| <b>ELISA:</b>               | 1:5,000 - 1:25,000                                                                                                                                                                                                                                                                                                            |
| <b>WB:</b>                  | 1:500 - 1:3,000                                                                                                                                                                                                                                                                                                               |

## Formulation

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                                  |
| <b>Concentration:</b>  | 0.64 mg/mL by UV absorbance at 280 nm                      |
| <b>Buffer:</b>         | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.01% (w/v) Sodium Azide                                   |
| <b>Stabilizer:</b>     | None                                                       |

## Shipping & Handling

|                            |         |
|----------------------------|---------|
| <b>Shipping Condition:</b> | Dry Ice |
|----------------------------|---------|

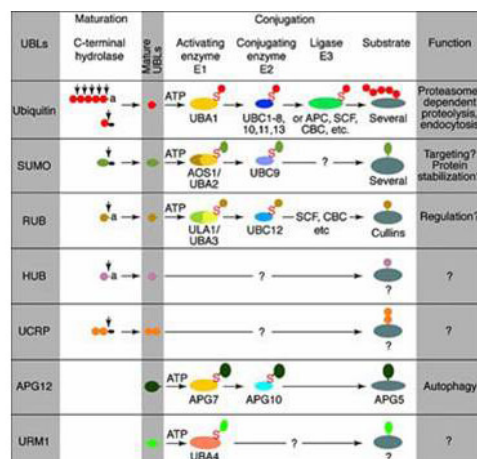
#### Storage Condition:

Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

#### Expiration:

Expiration date is three (3) months from date of receipt.

## Images

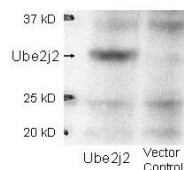


#### Pathway

Most modifiers mature by proteolytic processing from inactive precursors ("a" = amino acid). Arrowheads point to the cleavage sites. Ubiquitin is expressed either as polyubiquitin or as a fusion with ribosomal proteins. Conjugation requires activating (E1) and conjugating (E2) enzymes that form thioesters (S) with the modifiers. Modification of cullins by RUB involves SCF(SKP1/cullin-1/F-box protein)/CBC(cullin-2/elonginB/elonginC)-like E3 enzymes that are also involved in ubiquitination. In contrast to ubiquitin, the UBLs do not seem to form multi-UBL chains. UCRP(ISG15) resembles two ubiquitin moieties linked head-to-tail. Whether HUB1 functions as a modifier is currently unclear. APG12 and URM1 are distinct from the other modifiers because they are unrelated in sequence to ubiquitin. (From Jentsch & Pyrowolakis (2000); see references below.)

#### Western Blot

Western blot using Rockland's affinity purified anti-Ube2j2 antibody shows detection of Ube2j2 in 293 cells over-expressing Myc-Ube2j2 (Lane 1). Lane 2 contains lysate from mock-transfected 293 cells. Personal Communication, A. Weissman & T. Shang, CCR-NCI, Frederick, MD



## Disclaimer

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