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

Anti-Ubiquitin-Conjugating Enzyme E2 J2 (Ube2j2) (RABBIT) Antibody

UBE2J2 Antibody
Catalog # ASR5481

Specification

Anti-Ubiquitin-Conjugating Enzyme E2 J2 (Ube2j2) (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Human**
Reactivity	**Rat, Human, Mouse**
Clonality	**Polyclonal**
Application	**WB, E, IP, I, LCI**
Application Note	**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.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**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.**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-Ubiquitin-Conjugating Enzyme E2 J2 (Ube2j2) (RABBIT) Antibody - Additional Information

Gene ID 118424

Other Names
118424

Purity
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.

Storage Condition

Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-Ubiquitin-Conjugating Enzyme E2 J2 (Ube2j2) (RABBIT) Antibody - Protein Information

Name UBE2J2

Synonyms NCUBE2

Function
Catalyzes the covalent attachment of ubiquitin to other proteins. Seems to function in the selective degradation of misfolded membrane proteins from the endoplasmic reticulum (ERAD) (By similarity). In cooperation with the GATOR2 complex, catalyzes 'Lys-6'- linked ubiquitination of NPRL2 (PubMed:36528027).

Cellular Location
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9Y385}; Single-pass type IV membrane protein {ECO:0000250|UniProtKB:Q9Y385}

Anti-Ubiquitin-Conjugating Enzyme E2 J2 (Ube2j2) (RABBIT) Antibody - 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

Anti-Ubiquitin-Conjugating Enzyme E2 J2 (Ube2j2) (RABBIT) Antibody - Images

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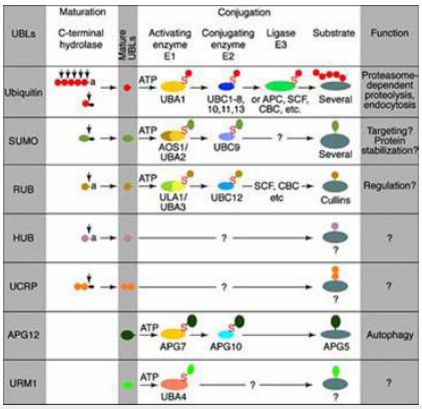

Most modifiers mature by proteolytic processing from inactive precursors (“a” = amino acid). Arrowheads point to the cleavage sites. Ubiquitin is expressed either as polyubiquitin or as a fusion with ribosomal proteins. Conjugation requires activating (E1) and conjugating (E2) enzymes that form thioesters (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.)

Anti-Ubiquitin-Conjugating Enzyme E2 J2 (Ube2j2) (RABBIT) Antibody - Background

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.