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Anti-Ubiquitin-Conjugating Enzyme E2 J1 (Ube2j1) (RABBIT) Antibody
UBE2J1 Antibody
Catalog # ASR5389

Specification

Anti-Ubiquitin-Conjugating Enzyme E2 J1 (Ube2j1) (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Human**
Reactivity	**Human**
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 35-40 kDa in size corresponding to Ube2j1 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 residues near the amino terminus of the human Ube2j1 protein.**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-Ubiquitin-Conjugating Enzyme E2 J1 (Ube2j1) (RABBIT) Antibody - Additional Information

Gene ID 51465

Other Names
51465

Purity
This affinity purified antibody is directed against human Ube2j1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with Ube2j1 protein from human, mouse and rat 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 J1 (Ube2j1) (RABBIT) Antibody - Protein Information

Name UBE2J1 (HGNC:17598)

Synonyms NCUBE1

Function
Catalyzes the covalent attachment of ubiquitin to other proteins. Functions in the selective degradation of misfolded membrane proteins from the endoplasmic reticulum (ERAD) and is essential for cells to recover from ER stress (PubMed:28321712). Plays a role in MAPKAPK2-dependent translational control of TNF-alpha synthesis (PubMed:24020373). Also acts as a platform for perinuclear positioning of the endosomal system by mediating ubiquitination of SQSTM1 through interaction with the E3 ubiquitin-protein ligase RNF26 (PubMed:33472082). Plays a role in male fecundity through the interaction with the E3 ubiquitin-protein ligase RNF133 (PubMed:35831855).

Cellular Location
Endoplasmic reticulum membrane; Single-pass type IV membrane protein

Tissue Location
Expressed in testes..

Anti-Ubiquitin-Conjugating Enzyme E2 J1 (Ube2j1) (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 J1 (Ube2j1) (RABBIT) Antibody - Images

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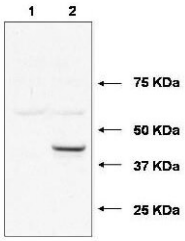

Western blot using Rockland's affinity purified anti-Ube2j1 antibody shows detection of Ube2j1 in 293 cells over-expressing Myc-Ube2j1 (Lane 2). Lane 1 contains lysate from mock-transfected 293 cells. Personal Communication, A. Weissman & T. Shang, CCR-NCI, Frederick, MD

Anti-Ubiquitin-Conjugating Enzyme E2 J1 (Ube2j1) (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. Ube2j1 and Ube2j2 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 transmembrane 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.