

Datasheet for ABIN349639
anti-UBE2J2 antibody (Internal Region)

2 Images

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Overview

Quantity:	100 µg
Target:	UBE2J2
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This UBE2J2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	<p>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.</p> <p>Immunogen Type: Peptide</p>
Isotype:	IgG
Specificity:	<p>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.</p>

Product Details

Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Characteristics:	<p>This antibody is designed, produced, and validated as part of a collaboration with 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.</p>

Target Details

Target:	UBE2J2
Abstract:	UBE2J2 Products
Background:	<p>This antibody is designed, produced, 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.</p> <p>Synonyms: Ubiquitin-conjugating enzyme E2 J2 Non-canonical ubiquitin-conjugating enzyme 2 Ube2j2</p>
Gene ID:	118424, 251757431
UniProt:	Q8N2K1

Application Details

Application Notes:	<p>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.</p>
Comment:	Gene Name: UBE2J2

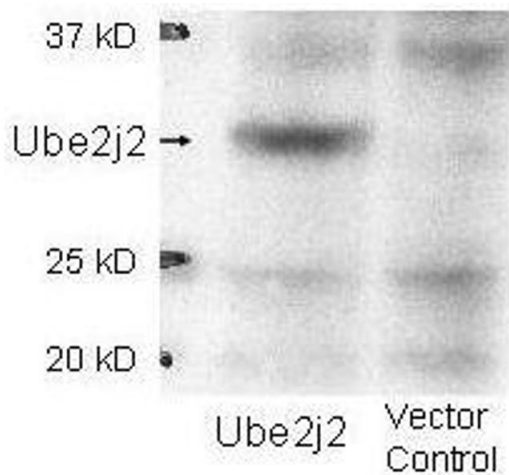
Application Details

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	0.64 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Store secondary antibody 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. 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. Expiration date is three (3) months from date of opening.
Expiry Date:	3 months

Images



Western Blotting

Image 1. Western blot using 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

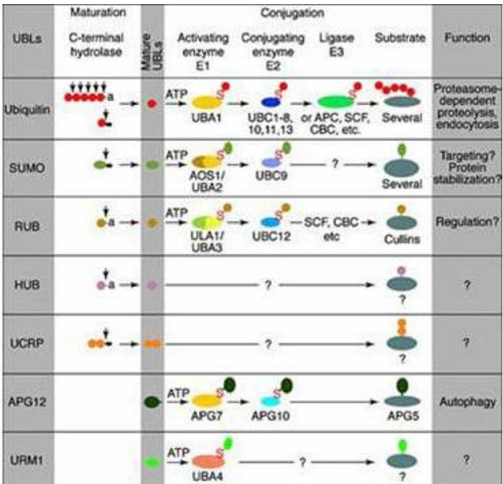


Image 2. Most modifiers mature by proteolytic processing from inactive precursors ("a" = amino acid). Arrowheads point to the cleavage sites. Ubiquitin is expressed either as polyubiquitin or as a fusion with ribosomal proteins. Conjugation requires activating (E1) and conjugating (E2) enzymes that form 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.)