

Datasheet for ABIN6656076

## anti-UBE2M antibody (AA 169-180)

2 Images

2 Publications



[Go to Product page](#)

### Overview

Quantity:	100 µg
Target:	UBE2M (ube2m)
Binding Specificity:	AA 169-180
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This UBE2M antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

### Product Details

Purpose:	UBC12 Antibody
Immunogen:	This affinity purified antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to a C-terminal region near aa 150-183 of Human UBC12 protein.
Isotype:	IgG
Cross-Reactivity (Details):	Reactivity occurs against human UBC12 protein.
Purification:	UBC12 Antibody is produced by immunoaffinity chromatography using the immunizing peptide after immobilization to a solid phase.
Sterility:	Sterile filtered

## Target Details

Target:	UBE2M (ube2m)
Alternative Name:	UBC12 ( <a href="#">ube2m Products</a> )
Background:	<p>Synonyms: rabbit anti-UBC12 antibody, UBC-12, UBC 12, NEDD-8, NEDD 8, NEDD8 carrier protein antibody, NEDD8 conjugating enzyme Ubc12 antibody, NEDD8 protein ligase antibody, UBE2M antibody, Ubiquitin conjugating enzyme E2 M antibody</p> <p>Background: UBC12 (also known as Ubiquitin-conjugating enzyme E2M, Ubiquitin-protein ligase M, Ubiquitin carrier protein M, and Nedd8-conjugating enzyme Ubc12) is a member of the E2 ubiquitin-conjugating enzyme family. The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. UBC12 is linked with a ubiquitin-like protein, NEDD8, which can be conjugated to cellular proteins, such as Cdc53/cullin.</p> <p>Gene Name: UBE2M</p>
Gene ID:	9040, 4507791
UniProt:	<a href="#">P61081</a>

## Application Details

Application Notes:	<p>ELISA_Dilution: 1:2,000 - 1:10,000</p> <p>Western_Blot_Dilution: 1:500 - 1:2,000</p> <p>Other: User Optimized</p>
Comment:	UBC12 Antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 21 kDa in size corresponding to UBC12 by western blotting in the appropriate cell lysate or extract.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	<p>Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</p> <p>Stabilizer: None</p> <p>Preservative: 0.01 % (w/v) Sodium Azide</p>
Preservative:	Sodium azide

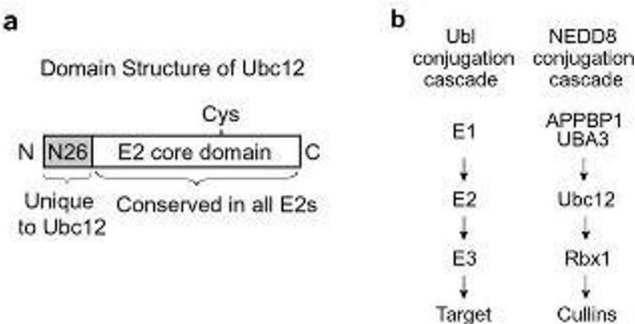
Handling

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 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.
Expiry Date:	12 months

Publications

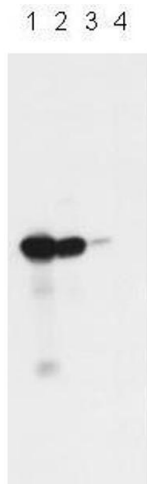
Product cited in:	<p>Liu, Reitsma, Mamrosh, Zhang, Straube, Deshaies: "Cand1-Mediated Adaptive Exchange Mechanism Enables Variation in F-Box Protein Expression." in: <b>Molecular cell</b>, Vol. 69, Issue 5, pp. 773-786.e6, (2019) (<a href="#">PubMed</a>).</p> <p>Kolokoltsova, Domina, Kolokoltsov, Davey, Weaver, Watowich: "Alphavirus production is inhibited in neurofibromin 1-deficient cells through activated RAS signalling." in: <b>Virology</b>, Vol. 377, Issue 1, pp. 133-42, (2008) (<a href="#">PubMed</a>).</p>
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Images



Immunofluorescence

**Image 1.** Figure shows the structural domain features of UBC12. Panel A shows the portion of the protein unique to UBC12 and common to all members of the E2 ubiquitin-conjugating enzyme family. Panel B shows UBC12's involvement in UBL and NEDD8 conjugation cascades. See Huang et al for more details.



### Western Blotting

**Image 2.** Anti-UBC12 Antibody - Western Blot. Western blot analysis is shown using Affinity Purified anti-UBC12 antibody to detect Human UBC12 in various preparations. This western blot shows reactivity with purified human UBC12 protein (lane 1), NIH-3T3 cells over expressing UBC12 by infection (lane 2) and endogenous UBC12 in NIH 3T3 cells (lane 3). Peptide competition (lane 4) blocks specific reactivity of the antibody with purified UBC12 protein. Comparison to a molecular weight marker (not shown) indicates a single band of ~21.0 kDa corresponding to the expected molecular weight for the protein. The blot was blocked with 5% non-fat dry milk in TBS supplemented with 0.1% Tween-20 at 4° C overnight. After washes the blot was incubated with a 1:1,000 dilution of the antibody at room temperature for 2 h in TBS-Tween. Washes consisted of 3 changes of TBS-Tween buffer for 15 min each. Detection occurred using HRP anti-Rabbit IgG diluted 1:2,000 and signal processing by chemiluminescence reagent with a 10-sec exposure time. Other detection systems will yield similar results. Personal communication Martine Roussel.