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Datasheet for ABIN5012156  
**anti-UBE2G1 antibody (AA 101-170) (Alexa Fluor 680)**

### Overview

Quantity:	100 µL
Target:	UBE2G1 (Ube2g1)
Binding Specificity:	AA 101-170
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This UBE2G1 antibody is conjugated to Alexa Fluor 680
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Ube2G1/UBC7
Isotype:	IgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Mouse,Dog,Sheep,Pig,Horse,Rabbit
Purification:	Purified by Protein A.

### Target Details

Target:	UBE2G1 (Ube2g1)
Alternative Name:	Ube2G1 ( <a href="#">Ube2g1 Products</a> )

## Target Details

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**Background:** Synonyms: E217K, UB2G1\_HUMAN, UBC 7, UBC7, UBC7 homolog yeast, UBE 2G, UBE2G, Ube2g1, Ubiquitin carrier protein G1, Ubiquitin conjugating enzyme E2 G1, Ubiquitin conjugating enzyme E2G 1 homologous to C. elegans UBC7, Ubiquitin conjugating enzyme E2G 1 UBC7 homolog C. elegans, Ubiquitin conjugating enzyme E2G 1 UBC7 homolog yeast, Ubiquitin conjugating enzyme E2G 1, Ubiquitin protein ligase G1, Ubiquitin-conjugating enzyme E2 G1, Ubiquitin-protein ligase G1.

Background: Ubiquitin is an abundant, highly conserved protein found in all eukaryotic cells either free or covalently attached to cellular proteins. The primary function of ubiquitin in mammalian systems is to clear abnormal, foreign, and improperly folded proteins by targeting them for proteasome degradation. In *Saccharomyces cerevisiae*, ubiquitin-like proteins include Rub1, Ula1, Uba3, Smt3, Ubc2, Ubc12 and Ubc9. Rub1 shares 53 % homology with ubiquitin and requires activation via the E2 proteins, including Ula1, Uba3 and Ubc12 in order to conjugate to substrates directed to different proteolytic systems. Ubc4 catalyzes ubiquitination of I $\kappa$ B $\alpha$  in a phosphorylation and SCFB-TRCP dependent manner. In this particular reaction, E1 first transfers ubiquitin to the E2 component Ubc4, and Ubc4 then associates with E3 ligase, which conjugates the poly-ubiquitin chain on a target protein. In this fashion, the chain tags the I $\kappa$ B $\alpha$  for degradation by a proteasome thus lifting the inhibitory effect of I $\kappa$ B $\alpha$  on NF $\kappa$ B and allowing NF $\kappa$ B to enter the nucleus.

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**Gene ID:** 7326

## Application Details

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**Application Notes:** IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Concentration:** 1  $\mu$ g/ $\mu$ L

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**Buffer:** Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

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**Preservative:** ProClin

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**Precaution of Use:** This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

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## Handling

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handled by trained staff only.

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Storage: -20 °C

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Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

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Expiry Date: 12 months