

## ARG55683 anti-UBE2K antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes UBE2K
Tested Reactivity	Hu, Ms
Predict Reactivity	Bov
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	UBE2K
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 109-139 (Center) of Human UBE2K.
Conjugation	Un-conjugated
Alternate Names	25K; EC 6.3.2.19; LIG; Ubiquitin-conjugating enzyme E2 K; Ubiquitin-conjugating enzyme E2; UBC1; Huntingtin-interacting protein 2; E2-25K; Ubiquitin-conjugating enzyme E2-25 kDa; Ubiquitin-protein ligase; Ubiquitin-conjugating enzyme E2-25K; HYPG; HIP-2; Ubiquitin carrier protein; HIP2

### Application Instructions

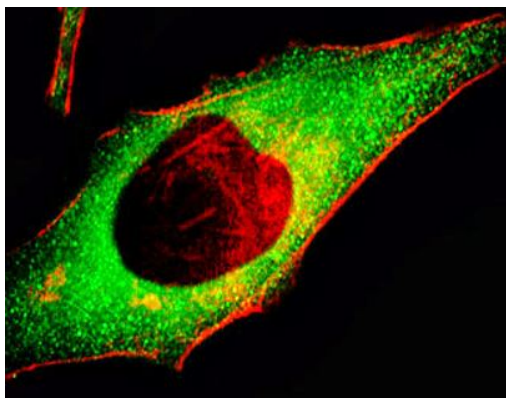
Application table	Application	Dilution
	ICC/IF	1:10 - 1:50
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	293	

### Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Database links	<a href="#">GeneID: 3093 Human</a> <a href="#">GeneID: 53323 Mouse</a> <a href="#">Swiss-port # P61086 Human</a> <a href="#">Swiss-port # P61087 Mouse</a>
Gene Symbol	UBE2K
Gene Full Name	ubiquitin-conjugating enzyme E2K
Background	The protein encoded by this gene belongs to the ubiquitin-conjugating enzyme family. This protein interacts with RING finger proteins, and it can ubiquitinate huntingtin, the gene product for Huntington's disease. Known functions for this protein include a role in aggregate formation of expanded polyglutamine proteins and the suppression of apoptosis in polyglutamine diseases, a role in the dislocation of newly synthesized MHC class I heavy chains from the endoplasmic reticulum, and involvement in foam cell formation. Multiple transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]
Function	Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro, in the presence or in the absence of BRCA1-BARD1 E3 ubiquitin-protein ligase complex, catalyzes the synthesis of 'Lys-48'-linked polyubiquitin chains. Does not transfer ubiquitin directly to but elongates monoubiquitinated substrate protein. Mediates the selective degradation of short-lived and abnormal proteins, such as the endoplasmic reticulum-associated degradation (ERAD) of misfolded luminal proteins. Ubiquitinates huntingtin. May mediate foam cell formation by the suppression of apoptosis of lipid-bearing macrophages through ubiquitination and subsequent degradation of p53/TP53. Proposed to be involved in ubiquitination and proteolytic processing of NF-kappa-B; in vitro supports ubiquitination of NFKB1. In case of infection by cytomegaloviruses may be involved in the US11-dependent degradation of MHC class I heavy chains following their export from the ER to the cytosol. In case of viral infections may be involved in the HPV E7 protein-dependent degradation of RB1. [UniProt]
Calculated Mw	22 kDa
PTM	Sumoylation at Lys-14 impairs catalytic activity.
Cellular Localization	Cytoplasm.

## Images



ARG55683 anti-UBE2K antibody ICC/IF image

Immunofluorescence: HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then stained with ARG55683 anti-UBE2K antibody (green) at 1:25 dilution, 1 hour at 37°C. Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/ml, 1 hour at 37°C).



#### ARG55683 anti-UBE2K antibody WB image

Western blot: 35 µg of 293 cell lysate stained with ARG55683 anti-UBE2K antibody.