# ARG43191
# anti-UBE2N / UBC13 antibody

Package: 50 µg
Store at: -20°C

## Summary

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|---|---|
| Product Description | Rabbit Polyclonal antibody recognizes UBE2N / UBC13 |
| Tested Reactivity | Hu, Ms |
| Predict Reactivity | Rat |
| Tested Application | ICC/IF, IHC-P, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | UBE2N / UBC13 |
| Species | Human |
| Immunogen | A 15-amino acid peptide within the last 50 amino acids of Human UBE2N / UBC13. |
| Conjugation | Un-conjugated |
| Alternate Names | Ubiquitin-conjugating enzyme E2 N; Ubiquitin-protein ligase N; EC 6.3.2.19; HEL-S-71; Ubc13; Bendless-like ubiquitin-conjugating enzyme; Ubiquitin carrier protein N; UBC13; UbcH13; UBCHBEN; UbcH-ben |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| ICC/IF | 10 µg/ml |
| IHC-P | 2.5 µg/ml |
| WB | 0.5 - 2 µg/ml |

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| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |
| Positive Control | Human small intestine cells |
| Observed Size | ~ 16 kDa |

## Properties

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| Form | Liquid |
| Purification | Purified by affinity chromatography. |
| Buffer | PBS and 0.02% Sodium azide. |
| Preservative | 0.02% Sodium azide |
| Concentration | 1 mg/ml |
| 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 |

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| | 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. |

## Bioinformation

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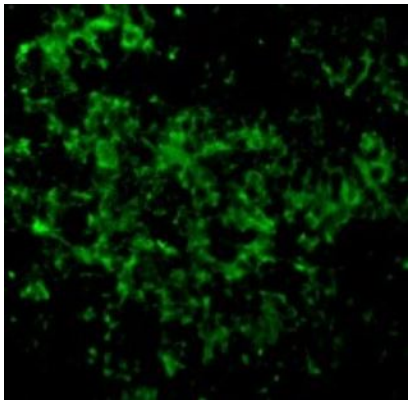
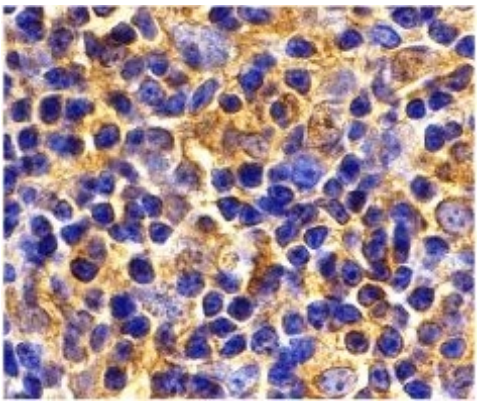
| Gene Symbol | UBE2N |
| Gene Full Name | ubiquitin-conjugating enzyme E2N |
| Background | The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. Studies in mouse suggest that this protein plays a role in DNA postreplication repair. [provided by RefSeq, Jul 2008] |
| Function | The UBE2V1-UBE2N and UBE2V2-UBE2N heterodimers catalyze the synthesis of non-canonical 'Lys-63'-linked polyubiquitin chains. This type of polyubiquitination does not lead to protein degradation by the proteasome. Mediates transcriptional activation of target genes. Plays a role in the control of progress through the cell cycle and differentiation. Plays a role in the error-free DNA repair pathway and contributes to the survival of cells after DNA damage. Acts together with the E3 ligases, HLTF and SHPRH, in the 'Lys-63'-linked poly-ubiquitination of PCNA upon genotoxic stress, which is required for DNA repair. Appears to act together with E3 ligase RNF5 in the 'Lys-63'-linked polyubiquitination of JKAMP thereby regulating JKAMP function by decreasing its association with components of the proteasome and ERAD. Promotes TRIM5 capsid-specific restriction activity and the UBE2V1-UBE2N heterodimer acts in concert with TRIM5 to generate 'Lys-63'-linked polyubiquitin chains which activate the MAP3K7/TAK1 complex which in turn results in the induction and expression of NF-kappa-B and MAPK-responsive inflammatory genes. Together with RNF135 and UB2V1, catalyzes the viral RNA-dependent 'Lys-63'-linked polyubiquitination of RIG-I/DDX58 to activate the downstream signaling pathway that leads to interferon beta production (PubMed:28469175, PubMed:31006531). [UniProt] |
| Calculated Mw | 17 kDa |
| PTM | Conjugation to ISG15 impairs formation of the thioester bond with ubiquitin but not interaction with UBE2V2. [UniProt] |
| Cellular Localization | Nucleus. Cytoplasm. [UniProt] |

## Images



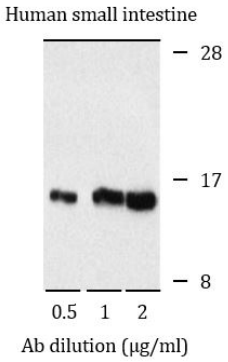
ARG43191 anti-UBE2N / UBC13 antibody ICC/IF image

Immunofluorescence: Mouse thymus cells stained with ARG43191 anti-UBE2N / UBC13 antibody at 10 µg/ml dilution.



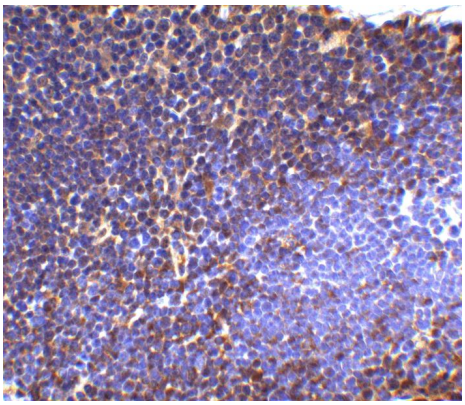
ARG43191 anti-UBE2N / UBC13 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse thymus tissue stained with ARG43191 anti-UBE2N / UBC13 antibody at 2 µg/ml dilution.




ARG43191 anti-UBE2N / UBC13 antibody WB image

Western blot: Human small intestine cell lysate stained with ARG43191 anti-UBE2N / UBC13 antibody at 0.5, 1 and 2 µg/ml dilution.



ARG43191 anti-UBE2N / UBC13 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse thymus tissue stained with ARG43191 anti-UBE2N / UBC13 antibody at 2.5 µg/ml dilution.