

# Anti-UBE2I/Ubc9 Rabbit Monoclonal Antibody

Catalog # ABO14960

## Product Information

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|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC, IF, ICC, IP, FC                                                                                                                              |
| <b>Primary Accession</b> | <a href="#">P63279</a>                                                                                                                                |
| <b>Host</b>              | Rabbit                                                                                                                                                |
| <b>Isotype</b>           | Rabbit IgG                                                                                                                                            |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                                                     |
| <b>Clonality</b>         | Monoclonal                                                                                                                                            |
| <b>Format</b>            | Liquid                                                                                                                                                |
| <b>Description</b>       | Anti-UBE2I/Ubc9 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. |

## Additional Information

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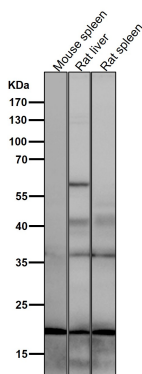
|                                 |                                                                                                                                                                                                                                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 7329                                                                                                                                                                                                                                             |
| <b>Other Names</b>              | SUMO-conjugating enzyme UBC9, 2.3.2.-, RING-type E3 SUMO transferase UBC9, SUMO-protein ligase, Ubiquitin carrier protein 9, Ubiquitin carrier protein I, Ubiquitin-conjugating enzyme E2 I, Ubiquitin-protein ligase I, p18, UBE2I, UBC9, UBCE9 |
| <b>Calculated MW</b>            | 18007                                                                                                                                                                                                                                            |
| <b>Application Details</b>      | WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:50                                                                                                                                                                     |
| <b>Subcellular Localization</b> | Nucleus. Cytoplasm. Mainly nuclear. In spermatocytes, localizes in synaptonemal complexes. Recruited by BCL11A into the nuclear body (By similarity)..                                                                                           |
| <b>Tissue Specificity</b>       | Expressed in heart, skeletal muscle, pancreas, kidney, liver, lung, placenta and brain. Also expressed in testis and thymus..                                                                                                                    |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                                                        |
| <b>Contents</b>                 | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                                                                                              |
| <b>Clone Names</b>              | Clone: EDF-21                                                                                                                                                                                                                                    |
| <b>Immunogen</b>                | A synthesized peptide derived from human UBE2I                                                                                                                                                                                                   |
| <b>Purification</b>             | Affinity-chromatography                                                                                                                                                                                                                          |

**Storage** Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

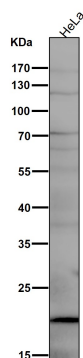
## Protein Information

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | UBE2I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>          | UBC9, UBCE9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Function</b>          | Accepts the ubiquitin-like proteins SUMO1, SUMO2, SUMO3, SUMO4 and SUMO1P1/SUMO5 from the UBLE1A-UBLE1B E1 complex and catalyzes their covalent attachment to other proteins with the help of an E3 ligase such as RANBP2, CBX4 and ZNF451. Can catalyze the formation of poly-SUMO chains. Necessary for sumoylation of FOXL2 and KAT5. Essential for nuclear architecture and chromosome segregation. Sumoylates p53/TP53 at 'Lys-386'. Mediates sumoylation of ERCC6 which is essential for its transcription-coupled nucleotide excision repair activity (PubMed: <a href="#">26620705</a> ). Sumoylates SHMT1 at 'Lys-38' or 'Lys-39' leading to RAN-dependent nuclear import of SHMT1 (PubMed: <a href="#">17446168</a> ). Also sumoylates TYMS and DHFR (PubMed: <a href="#">18067453</a> ). |
| <b>Cellular Location</b> | Nucleus. Cytoplasm Cytoplasm, perinuclear region Note=Mainly nuclear (By similarity). In spermatocytes, localizes in synaptonemal complexes (PubMed:8610150). Recruited by BCL11A into the nuclear body (By similarity). {ECO:0000250 UniProtKB:P63280, ECO:0000269 PubMed:8610150}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Tissue Location</b>   | Expressed in heart, skeletal muscle, pancreas, kidney, liver, lung, placenta and brain. Also expressed in testis and thymus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

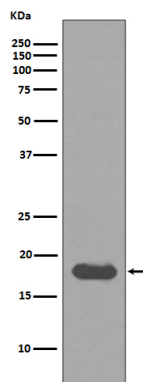
## Images



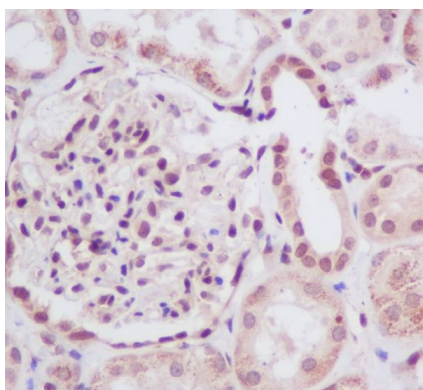
All lanes use the Antibody at 1:5K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:5K dilution for 1 hour at room temperature.



Western blot analysis of UBE2I expression in HeLa cell lysate.



Immunohistochemical analysis of paraffin-embedded human kidney, using UBE2I Antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.