

Goat Anti-UBE2I Antibody
Peptide-affinity purified goat antibody
Catalog # AF2130a**Specification**

Goat Anti-UBE2I Antibody - Product Information

Application	WB, IHC, ICC, E
Primary Accession	P63279
Other Accession	NP_919237 , 7329 , 22196 (mouse) , 25573 (rat)
Reactivity	Human, Mouse, Rat
Predicted	Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	18007

Goat Anti-UBE2I Antibody - Additional Information**Gene ID** 7329**Other Names**

SUMO-conjugating enzyme UBC9, 6.3.2.-, SUMO-protein ligase, Ubiquitin carrier protein 9, Ubiquitin carrier protein I, Ubiquitin-conjugating enzyme E2 I, Ubiquitin-protein ligase I, p18, UBE2I, UBC9, UBCE9

Dilution

WB~~1:1000
IHC~~1:100~500
ICC~~N/A
E~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-UBE2I Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-UBE2I Antibody - Protein Information**Name** UBE2I

Synonyms UBC9, UBCE9**Function**

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:26620705). Sumoylates SHMT1 at 'Lys-38' or 'Lys-39' leading to RAN-dependent nuclear import of SHMT1 (PubMed:17446168). Also sumoylates TYMS and DHFR (PubMed:18067453).

Cellular Location

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}

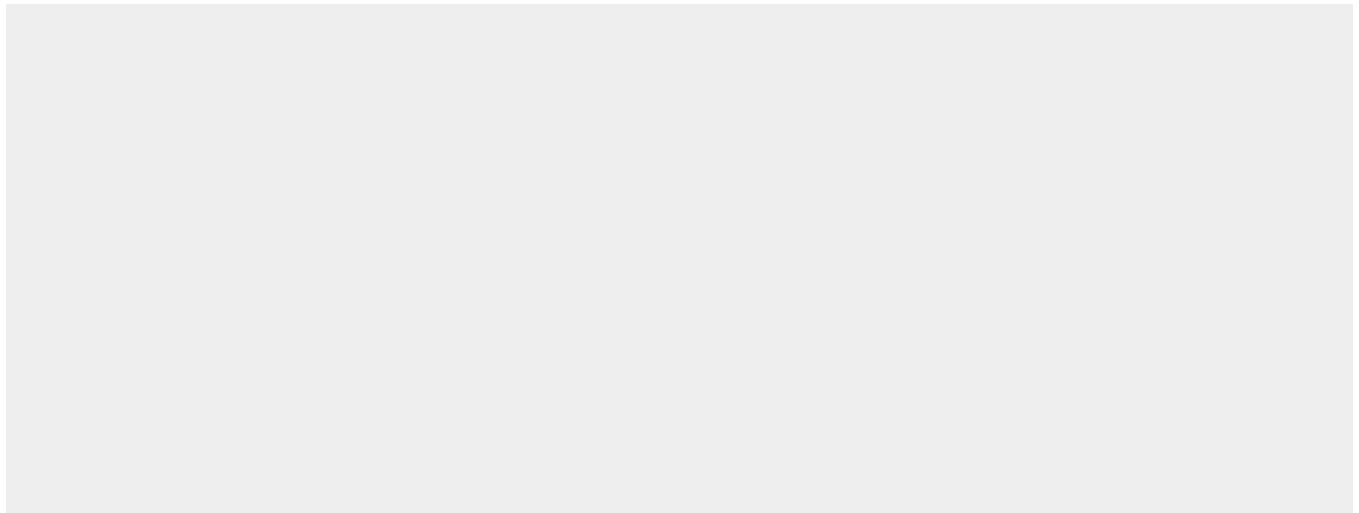
Tissue Location

Expressed in heart, skeletal muscle, pancreas, kidney, liver, lung, placenta and brain. Also expressed in testis and thymus.

Goat Anti-UBE2I Antibody - Protocols

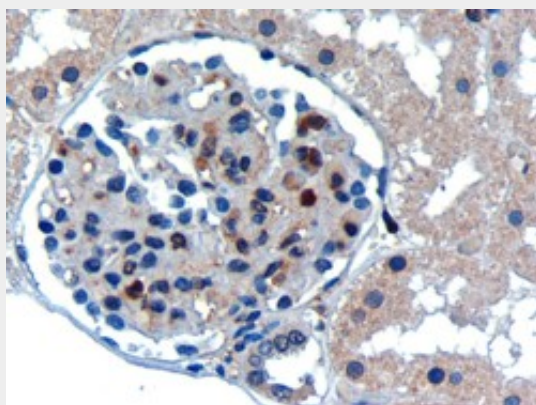
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-UBE2I Antibody - Images



AF2130a (0.1 µg/ml) staining of Human Kidney lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF2130a (0.3 µg/ml) staining of paraffin embedded Human Kidney. Microwaved antigen retrieval with Tris/EDTA buffer pH9, HRP-staining.

Goat Anti-UBE2I Antibody - 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. Four alternatively spliced transcript variants encoding the same protein have been found for this gene.

Goat Anti-UBE2I Antibody - References

Expression analysis of Ubc9, the single small ubiquitin-like modifier (SUMO) E2 conjugating enzyme, in normal and malignant tissues. Moschos SJ, et al. Hum Pathol, 2010 Sep. PMID 20561671.
Ubc9 promotes breast cell invasion and metastasis in a sumoylation-independent manner. Zhu S, et al. Oncogene, 2010 Mar 25. PMID 20023705.
Association of SUMO1 and UBC9 genotypes with tumor response in non-small-cell lung cancer treated with irinotecan-based chemotherapy. Han JY, et al. Pharmacogenomics J, 2010 Apr. PMID 19859084.
Characterization of papillomavirus E1 helicase mutants defective for interaction with the SUMO-conjugating enzyme Ubc9. Fradet-Turcotte A, et al. Virology, 2009 Dec 20. PMID 19836047.
Ubc9 gene polymorphisms and late-onset Alzheimer's disease in the Korean population: a genetic

association study. Ahn K, et al. Neurosci Lett, 2009 Nov 20. PMID 19765634.