

Rabbit UBE2I Polyclonal Antibody | anti-UBE2I antibody

UBE2I Antibody

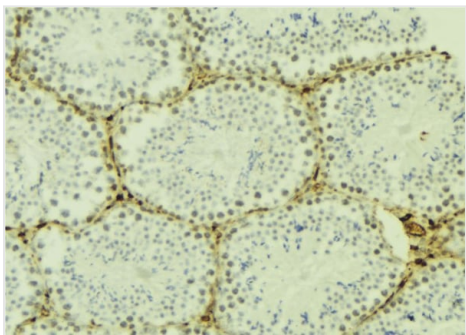
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326671	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

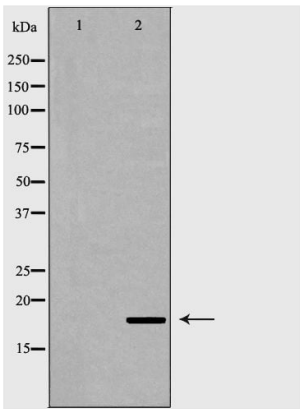
UBE2I; Polyclonal Antibody; UBE2I Antibody; C358B7.1; p18; SUMO 1 protein ligase; SUMO conjugating enzyme UBC9; SUMO-conjugating enzyme UBC9; SUMO-protein ligase; SUMO1 protein ligase; UBC9; UBC9_HUMAN; UBCE9; Ube2i; Ubiquitin carrier protein 9; Ubiquitin carrier protein; Ubiquitin carrier protein I; Ubiquitin conjugating enzyme 9; Ubiquitin conjugating enzyme E2I (homologous to yeast UBC9); Ubiquitin conjugating enzyme E2I (UBC9 homolog; yeast); Ubiquitin conjugating enzyme UbcE2A; Ubiquitin like protein SUMO 1 conjugating enzyme; Ubiquitin protein ligase E2I; Ubiquitin-conjugating enzyme E2 I; Ubiquitin-protein ligase I; anti-UBE2I antibody

PRODUCT SPECIFICATIONS

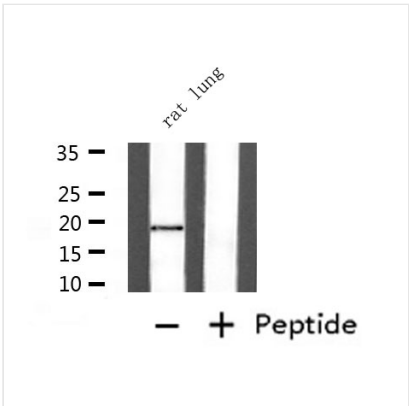
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	UBE2I antibody detects endogenous levels of total UBE2I
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	158
Applicable Applications for anti-UBE2I antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human UBE2I
Subcellular Location	Nucleus. Cytoplasm. Mainly nuclear. In spermatocytes, localizes in synaptonemal complexes. Recruited by BCL11A into the nuclear body.
Tissue Specificity	Expressed in heart, skeletal muscle, pancreas, kidney, liver, lung, placenta and brain. Also expressed in testis and thymus.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



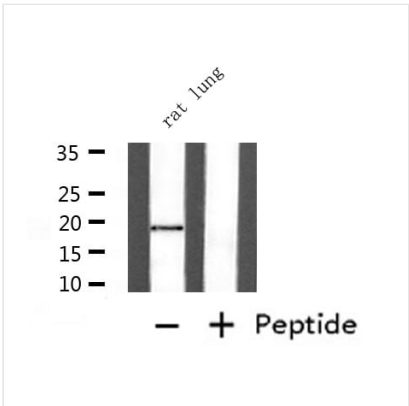
IHC (Immunohistochemistry)
AAA326671 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Hela whole cell lysates, using UBE2I Antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of extracts from rat lung, using UBE2I Antibody.



WB (Western Blot)
Western blot analysis of extracts from mouse brain, rat spleen, using UBE2I Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-UBE2I antibody	Description: The process of SUMO-1 conjugation is similar to that seen with ubiquitin and other forms of post-translational protein modification (1). Like ubiquitin, SUMO-1 is conjugated to its target protein by the coordinated action of ubiquitin conjugation enzymes E1, E2 and E3 (2). Ubc9 (or ube2M) is a highly conserved, 158 amino acid protein that acts as a SUMO-1 conjugating enzyme (3). Ubc9 binds to target proteins through their SUMO-1-CS (consensus sequence) domains and interacts with SUMO via the structurally conserved amino-terminal domain (3, 4). Localization of Ubc9 to the nucleus and the nuclear envelope allows this enzyme to catalyze target protein sumoylation and regulate target protein nucleocytoplasmic transport and transcriptional activity (5, 6). Ubc9 target proteins include a host of proteins (RAD51, RAD52, p53 and c-Jun) that regulate the cell cycle, DNA repair, and p53-dependent processes (7). Function: Accepts the ubiquitin-like proteins SUMO1, SUMO2, SUMO3 and SUMO4 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'. Subunit Structure: Interacts with SETX (PubMed:24105744). Interacts with HIPK1, HIPK2, PPM1J, RASD2 and TCF3 Interacts with NR2C1; the interaction promotes its sumoylation (By similarity). Forms a tight complex with RANGAP1 and RANBP2. Interacts with SIAH1 and PARP. Interacts with various transcription factors such as TFAP2A, TFAP2B, TFAP2C, AR, ETS1 and SOX4. Interacts with RWDD3; the interaction enhances the sumoylation of a number of proteins such as HIF1A and I-kappa-B. Interacts with DNMT1. Interacts with FOXL2. Forms a complex with SENP6 and UBE2I in response to UV irradiation. Interacts with human herpesvirus 6 IE2. Interacts with human adenovirus early E1A protein; this interaction interferes with polysumoylation (Probable). Interacts with DNMT1 (via its GTPase and B domains); the interaction promotes sumoylation of DNMT1, mainly in its B domain. Interacts with PML-RARA oncoprotein (via the coiled-coiled domain); the interaction is required for sumoylation of the PML-RARA oncoprotein. Interacts with IPO13. Interacts with NFATC2IP; this inhibits formation of poly-SUMO chains. Interacts with FHIT. Interacts with PRKRA and p53/TP53 (By similarity). Interacts with UHRF2. Interacts with NR3C1 and this interaction is enhanced in the presence of RWDD3. Interacts with MTA1. Interacts with ZNF451. Identified in a complex with SUMO2 and UBC9, where one ZNF451 interacts with one UBC9 and two SUMO2 chains, one bound to the UBC9 active site and the other to another region of the same UBC9 molecule. Interacts with Epstein-barr virus protein LMP1. Interacts with CPEB3 (By similarity). Post-translational Modifications: Phosphorylation at Ser-71 significantly enhances SUMOylation activity. Similarity: Belongs to the ubiquitin-conjugating enzyme family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507785
NCBI GeneID	7329
NCBI Accession #	NP_003336.1
NCBI GenBank Nucleotide #	NM_003345.4
UniProt Accession #	P63279; P50550; Q15698; Q59GX1; Q86VB3; D3DU69
Molecular Weight	Observed: 18 kDa Predicted: 19 kDa
NCBI Official Full Name	SUMO-conjugating enzyme UBC9
NCBI Official Synonym Full Names	ubiquitin conjugating enzyme E2 I
NCBI Official Symbol	UBE2I
NCBI Official Synonym Symbols	P18; UBC9; C358B7.1
NCBI Protein Information	SUMO-conjugating enzyme UBC9
UniProt Protein Name	SUMO-conjugating enzyme UBC9
UniProt Gene Name	UBE2I
UniProt Synonym Gene Names	UBC9; UBCE9

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ube2i-antibody-immunohistochemistry-western-blot-elisa/326671>