

Anti-UBC9 Antibody

Rabbit polyclonal antibody to UBC9
Catalog # AP59724

Product Information

Application	WB
Primary Accession	P63279
Other Accession	P63280
Reactivity	Human, Mouse, Rat, Zebrafish, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	18007

Additional Information

Gene ID	7329
Other Names	UBC9; UBCE9; SUMO-conjugating enzyme UBC9; SUMO-protein ligase; Ubiquitin carrier protein 9; Ubiquitin carrier protein I; Ubiquitin-conjugating enzyme E2 I; Ubiquitin-protein ligase I; p18
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human UBC9. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C. Stable for 12 months from date of receipt

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](https://pubmed.ncbi.nlm.nih.gov/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}

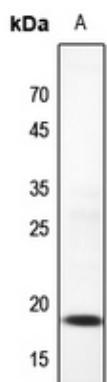
Tissue Location

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

Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human UBC9. The exact sequence is proprietary.

Images



Western blot analysis of UBC9 expression in zebrafish (A) whole cell lysates.

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