10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

UBE2W Rabbit pAb

Catalog # AP98415

Product Information

Application	IHC-P, IHC-F, IF
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	17 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human UBE2W
Epitope Specificity	71-151/151
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the ubiquitin-conjugating enzyme family.
SUBUNIT	Homodimer. Interacts with FANCL. Interacts with STUB1/CHIP (By similarity).
Post-translational modifications	Ubiquitinated in vitro in the presence of FANCL (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Ubiquitin is an abundant, highly conserved protein found in all eukaryotic cells either free or covalently attached to cellular proteins. Ubiquitination is an important mechanism through which three classes of enzymes act in concert to target short-lived or abnormal proteins for destruction. The three classes of enzymes involved in ubiquitination are the ubiquitin-activating enzymes (E1s), the ubiquitin-conjugating enzymes (E2s) and the ubiquitin-protein ligases (E3s). As an E2 class enzyme, UBE2W (Ubiquitin-conjugating enzyme E2 W), also known as Ubiquitin carrier protein W, is a 151 amino acid that catalyzes the conjugation of ubiquitin to proteins that are meant for lysosomal degradation. Functioning as a homodimer, UBE2W is widely expressed, with highest levels in testis. There are two isoforms of UBE2W that are produced as a result of alternative splicing events.

Additional Information

Gene ID	55284
Other Names	UBE2W_HUMAN; UBE2W; E2 ubiquitin-conjugating enzyme W; N-terminal E2 ubiquitin-conjugating enzyme; N-terminus-conjugating E2; Ubiquitin carrier protein W; Ubiquitin-conjugating enzyme 16 (UBC-16); Ubiquitin-protein ligase W; 2.3.2.23; UBC16; UBC-16; ubiquitin conjugating enzyme E2 W; ubiquitin-conjugating enzyme E2W (putative); ubiquitin conjugating enzyme E2 W (putative); Ubiquitin-conjugating enzyme 16

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Name	UBE2W Rabbit pAb
Function	Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. Catalyzes monoubiquitination. Involved in degradation of misfolded chaperone substrates by mediating monoubiquitination of STUB1/CHIP, leading to recruitment of ATXN3 to monoubiquitinated STUB1/CHIP, and restriction of the length of ubiquitin chain attached to STUB1/CHIP substrates by ATXN3. After UV irradiation, but not after mitomycin-C (MMC) treatment, acts as a specific E2 ubiquitin-conjugating enzyme for the Fanconi anemia complex by associating with E3 ubiquitin-protein ligase FANCL and catalyzing monoubiquitination of FANCD2, a key step in the DNA damage pathway. In vitro catalyzes 'Lys-11'-linked polyubiquitination.

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