10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

UBE2W Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13607b

Specification

UBE2W Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q96B02
Other Accession	B5DEI4, Q8VDW4, A6H795, Q1JPX4, NP_001001481.1, NP_060769.3
Reactivity	**Human, Mouse, Rat**
Predicted	**Zebrafish, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**105-133**

UBE2W Antibody (C-term) - Additional Information

Gene ID 55284

Other Names
Ubiquitin-conjugating enzyme E2 W, N-terminus-conjugating E2, Ubiquitin carrier protein W, Ubiquitin-conjugating enzyme 16, UBC-16, Ubiquitin-protein ligase W, UBE2W, UBC16

Target/Specificity
This UBE2W antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 105-133 amino acids from the C-terminal region of human UBE2W.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

Precautions
UBE2W Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

UBE2W Antibody (C-term) - Protein Information

Name UBE2W

Synonyms UBC16

Function Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins (PubMed:20061386, PubMed:21229326). Specifically monoubiquitinates the N-terminus of various substrates, including ATXN3, MAPT/TAU, POLR2H/RPB8 and STUB1/CHIP, by recognizing backbone atoms of disordered N-termini (PubMed:23560854, PubMed:23696636, PubMed:25436519). 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 (PubMed:19111657, PubMed:21229326). In vitro catalyzes 'Lys-11'-linked polyubiquitination. UBE2W-catalyzed ubiquitination occurs also in the presence of inactive RING/U-box type E3s, i.e. lacking the active site cysteine residues to form thioester bonds with ubiquitin, or even in the absence of E3, albeit at a slower rate (PubMed:25436519).

Cellular Location
Nucleus. Note=In the nucleus, colocalizes with FANCL.

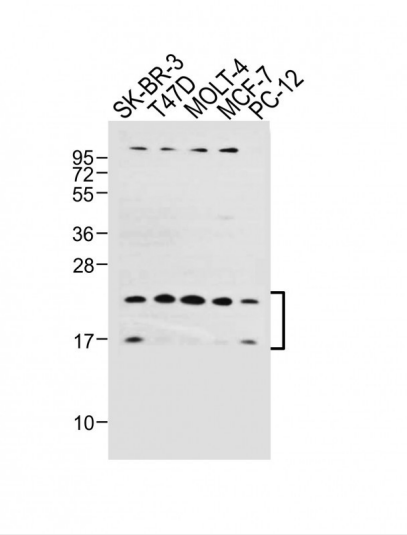
Tissue Location
Widely expressed, with highest expression in brain, liver, pancreas and heart.

UBE2W Antibody (C-term) - Protocols

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

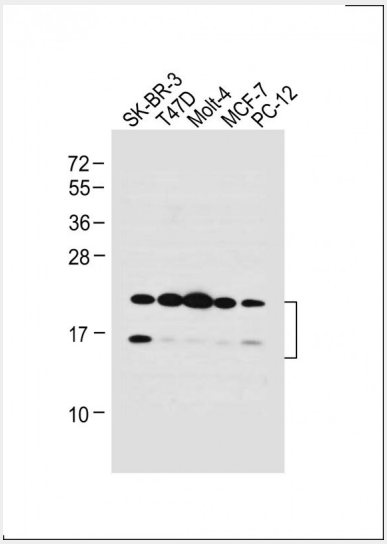
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

UBE2W Antibody (C-term) - Images

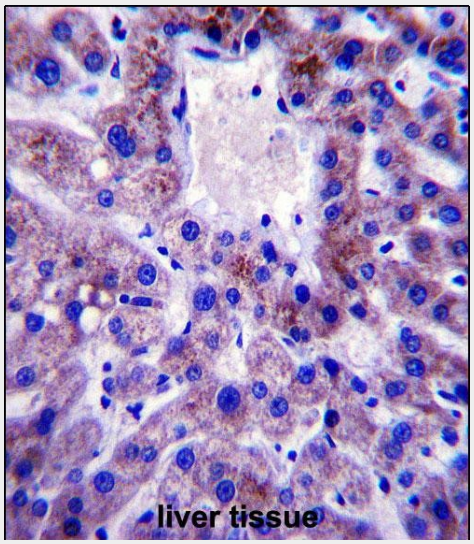


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All lanes : Anti-UBE2W Antibody (C-term) at 1:1000 dilution Lane 1: SK-BR-3 whole cell lysate Lane 2: T47D whole cell lysate Lane 3: MOLT-4 whole cell lysate Lane 4: MCF-7 whole cell lysate Lane 5: PC-12 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 17 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-UBE2W Antibody (C-term) at 1:1000 dilution Lane 1: SK-BR-3 whole cell lysate Lane 2: T47D whole cell lysate Lane 3: Molt-4 whole cell lysate Lane 4: MCF-7 whole cell lysate Lane 5: PC-12 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 17 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



UBE2W Antibody (C-term) (Cat. #AP13607b)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of UBE2W Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

UBE2W Antibody (C-term) - Background

UBE2W accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro catalyzes monoubiquitination and 'Lys-11'-linked polyubiquitination.

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UBE2W Antibody (C-term) - References

Markson, G., et al. Genome Res. 19(10):1905-1911(2009)
van Wijk, S.J., et al. Mol. Syst. Biol. 5, 295 (2009) :
Yin, G., et al. Front. Biosci. 11, 1500-1507 (2006) :