

Rabbit UBE2D1/2/3/4 Polyclonal Antibody | anti-UBE2D1/2/3/4 antibody

Anti-UBE2D1/2/3/4 Antibody

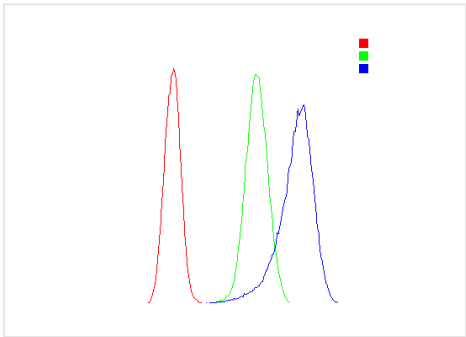
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19298	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

UBE2D1/2/3/4; Polyclonal Antibody; Anti-UBE2D1/2/3/4 Antibody; UBE2D1; SFT; UBC5A; UBCH5; UBCH5A; Ubiquitin-conjugating enzyme E2 D1; (E3-independent E2 ubiquitin-conjugating enzyme D1; E2 ubiquitin-conjugating enzyme D1; Stimulator of Fe transport; UBC4/5 homolog; Ubch5; Ubiquitin carrier protein D1; Ubiquitin-conjugating enzyme E2(17KB 1; Ubiquitin-conjugating enzyme E2-17 kDa 1; Ubiquitin-protein ligase D1; UBE2D2; PUBC1; UBC4; UBC5B; UBCH4; UBCH5B; Ubiquitin-conjugating enzyme E2 D2; (E3-independent E2 ubiquitin-conjugating enzyme D2; E2 ubiquitin-conjugating enzyme D2; Ubiquitin carrier protein D2; Ubiquitin-conjugating enzyme E2(17KB 2; Ubiquitin-conjugating enzyme E2-17 kDa 2; Ubiquitin-protein ligase D2; p53-regulated ubiquitin-conjugating enzyme 1; UBE2D3; UBC5C; UBCH5C; Ubiquitin-conjugating enzyme E2 D3; (E3-independent E2 ubiquitin-conjugating enzyme D3; E2 ubiquitin-conjugating enzyme D3; Ubiquitin carrier protein D3; Ubiquitin-conjugating enzyme E2(17KB 3; Ubiquitin-conjugating enzyme E2-17 kDa 3; Ubiquitin-protein ligase D3; UBE2D4; UBCH5D; Ubiquitin-conjugating enzyme E2 D4; E2 ubiquitin-conjugating enzyme D4; HBUCE1; Ubiquitin carrier protein D4; Ubiquitin-protein ligase D4; ubiquitin conjugating enzyme E2 D1/2/3/4; anti-UBE2D1/2/3/4 antibody

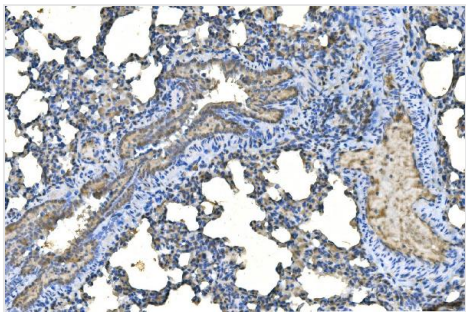
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for UBE2D1/2/3/4 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.005mg NaN3.
Applicable Applications for anti-UBE2D1/2/3/4 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.25-0.5ug/ml Human, Rat IHC-P: 2-5ug/ml Human, Mouse, Rat ICC/IF: 5ug/ml Human FC/FACS/FCM: 1-3ug/1x106 cells Mouse, Rat Direct ELISA: 0.1-0.5ug/ml Human
Immunogen	E Coli-derived human UBE2D1/2/3/4 recombinant protein (Position: D116-M147).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



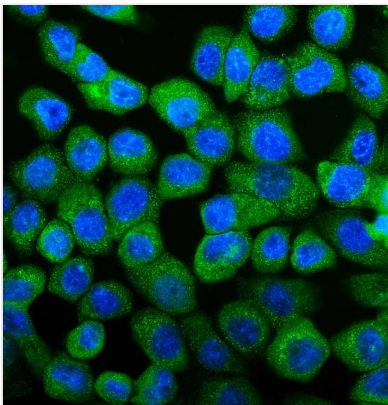
FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of A431 cells using anti-UBE2D1/2/3/4 antibody (AAA19298). Overlay histogram showing A431 cells stained with AAA19298 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-UBE2D1/2/3/4 Antibody (AAA19298, 1μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



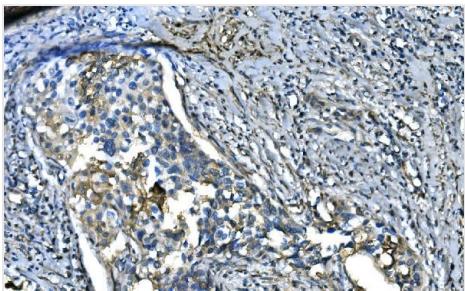
IHC (Immunohistochemistry)

Figure 5. IHC analysis of UBE2D1/2/3/4 using anti-UBE2D1/2/3/4 antibody (AAA19298). UBE2D1/2/3/4 was detected in paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-UBE2D1/2/3/4 Antibody (AAA19298) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



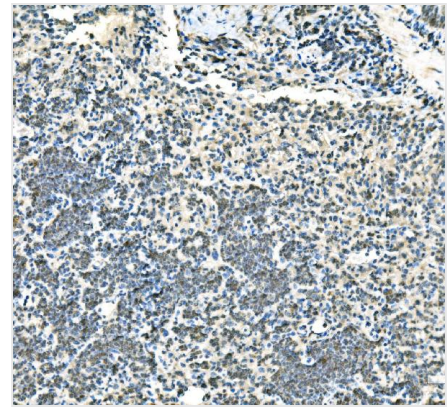
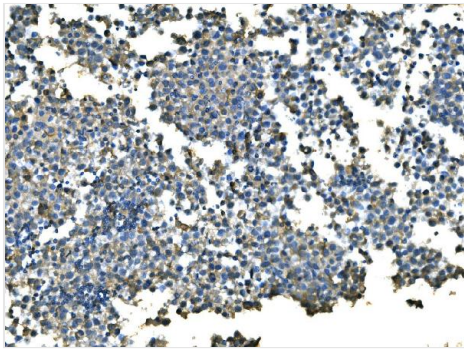
IF (Immunofluorescence)

Figure 6. IF analysis of UBE2D1/2/3/4 using anti-UBE2D1/2/3/4 antibody (AAA19298). UBE2D1/2/3/4 was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti-UBE2D1/2/3/4 Antibody (AAA19298) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of UBE2D1/2/3/4 using anti-UBE2D1/2/3/4 antibody (AAA19298). UBE2D1/2/3/4 was detected in paraffin-embedded section of human bladder cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-UBE2D1/2/3/4 Antibody (AAA19298) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 3. IHC analysis of UBE2D1/2/3/4 using anti-UBE2D1/2/3/4 antibody (AAA19298). UBE2D1/2/3/4 was detected in paraffin-embedded section of human testicular cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-UBE2D1/2/3/4 Antibody (AAA19298) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).

IHC (Immunohistochemistry)

Figure 2. IHC analysis of UBE2D1/2/3/4 using anti-UBE2D1/2/3/4 antibody (AAA19298). UBE2D1/2/3/4 was detected in paraffin-embedded section of mouse lung lymph node tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-UBE2D1/2/3/4 Antibody (AAA19298) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).

ADDITIONAL INFORMATION

Related Product Information for anti-UBE2D1/2/3/4 antibody	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. This enzyme is closely related to a stimulator of iron transport (SFT), and is up-regulated in hereditary hemochromatosis. It also functions in the ubiquitination of the tumor-suppressor protein p53 and the hypoxia-inducible transcription factor HIF1alpha by interacting with the E1 ubiquitin-activating enzyme and the E3 ubiquitin-protein ligases. Two transcript variants encoding different isoforms have been found for this gene.
References	1. Gehrke, S. G., Riedel, H. -D., Herrmann, T., Hadaschik, B., Bents, K., Veltkamp, C., Stremmel, W. Ubch5A, a member of human E2 ubiquitin-conjugating enzymes, is closely related to SFT, a stimulator of iron transport, and is up-regulated in hereditary hemochromatosis. <i>Blood</i> 101: 3288-3293, 2003. 2. Gutierrez, J. A., Yu, J., Rivera, S., Wessling-Resnick, M. Functional expression cloning and characterization of SFT, a stimulator of Fe transport. <i>J. Cell Biol.</i> 139: 895-905, 1997. Note: Erratum: <i>J. Cell Biol.</i> 147: 205 only, 1999. 3. Gutierrez, J. A., Yu, J., Wessling-Resnick, M. Characterization and chromosomal mapping of the human gene for SFT, a stimulator of Fe transport. <i>Biochem. Biophys. Res. Commun.</i> 253: 739-742, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1717848
NCBI GeneID	7321
UniProt Accession #	P51668 ; P62837 ; P61077 ; Q9Y2X8
Molecular Weight	147
NCBI Official Full Name	Ubiquitin-conjugating enzyme E2 D1
NCBI Official Synonym Full Names	ubiquitin-conjugating enzyme E2D 1
NCBI Official Symbol	UBE2D1
NCBI Official Synonym Symbols	SFT; UBCH5; UBC4/5; UBCH5A; E2(17)KB1
NCBI Protein Information	ubiquitin-conjugating enzyme E2 D1; UBC4/5 homolog; stimulator of Fe transport; ubiquitin-protein ligase D1; ubiquitin carrier protein D1; ubiquitin-conjugating enzyme E2(17)KB 1; ubiquitin-conjugating enzyme E2-17 kDa 1; ubiquitin-conjugating enzyme E2D
UniProt Protein Name	Ubiquitin-conjugating enzyme E2 D1

UniProt Gene Name	UBE2D1
UniProt Synonym Gene Names	SFT; UBC5A; UBCH5; UBCH5A; SFT
UniProt Entry Name	UB2D1_HUMAN

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/ube2d1-2-3-4-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-direct-elisa-elisa/19298>