10320 Camino Santa Fe, Suite G
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UBE2D1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2112b

Specification

UBE2D1 Antibody (C-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	P51668
Other Accession	D3ZDK2, P61080, Q2TA10, NP_003329
Reactivity	**Human**
Predicted	**Bovine, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**16602**
Antigen Region	**111-140**

UBE2D1 Antibody (C-term) - Additional Information

Gene ID 7321

Other Names
Ubiquitin-conjugating enzyme E2 D1, Stimulator of Fe transport, SFT, UBC4/5 homolog, UbcH5, Ubiquitin carrier protein D1, Ubiquitin-conjugating enzyme E2(17)KB 1, Ubiquitin-conjugating enzyme E2-17 kDa 1, Ubiquitin-protein ligase D1, UBE2D1, SFT, UBC5A, UBCH5, UBCH5A

Target/Specificity
This UBE2D1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 111-140 amino acids from the C-terminal region of human UBE2D1.

Dilution
IHC-P~~1:100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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
UBE2D1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

UBE2D1 Antibody (C-term) - Protein Information

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Name UBE2D1

Synonyms SFT, UBC5A, UBCH5, UBCH5A

Function Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins (PubMed:22496338). In vitro catalyzes 'Lys-48'-linked polyubiquitination (PubMed:20061386). Mediates the selective degradation of short-lived and abnormal proteins. Functions in the E6/E6-AP-induced ubiquitination of p53/TP53. Mediates ubiquitination of PEX5 and auto-ubiquitination of STUB1, TRAF6 and TRIM63/MURF1 (PubMed:18042044, PubMed:18359941). Ubiquitinates STUB1-associated HSP90AB1 in vitro (PubMed:18042044). Lacks inherent specificity for any particular lysine residue of ubiquitin (PubMed:18042044). Essential for viral activation of IRF3 (PubMed:19854139). Mediates polyubiquitination of CYP3A4 (PubMed:19103148).

Cellular Location
Cytoplasm.

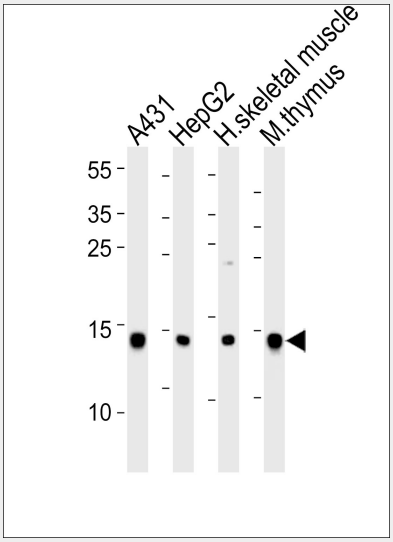
Tissue Location
Ubiquitous. Up-regulated in livers of iron- overloaded patients with hereditary hemochromatosis

UBE2D1 Antibody (C-term) - Protocols

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

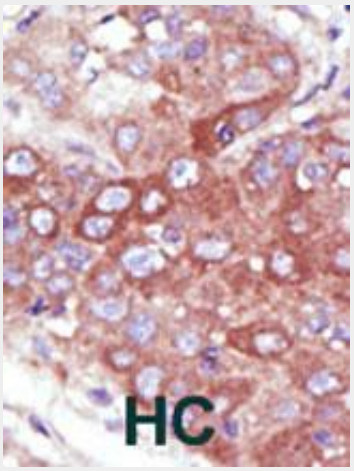
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

UBE2D1 Antibody (C-term) - Images

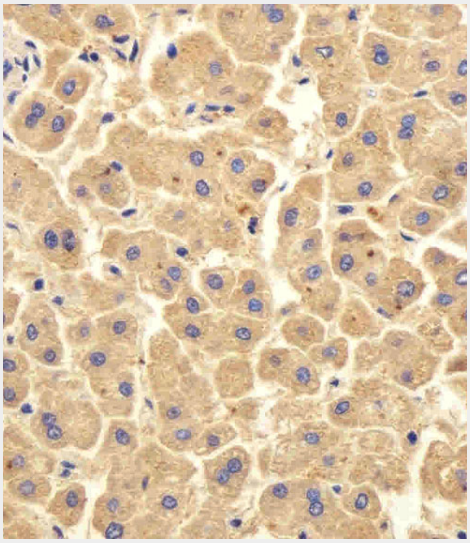


Western blot analysis of lysates from A431, HepG2 cell line, human skeletal muscle and mouse thymus tissue lysate(from left to right), using hUBE2D1-I126(Cat. #AP2112B). AP2112B was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as

the secondary antibody. Lysates at 35ug per lane.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



Immunohistochemical analysis of paraffin-embedded H. liver section using UBE2D1 Antibody (C-term)(Cat#AP2112b). AP2112b was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

UBE2D1 Antibody (C-term) - Background

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. UBE2D1 is 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.

UBE2D1 Antibody (C-term) - References

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Kamura, T., et al., Proc. Natl. Acad. Sci. U.S.A. 97(19):10430-10435 (2000).
Gutierrez, J.A., et al., Biochem. Biophys. Res. Commun. 253(3):739-742 (1998).
Jensen, J.P., et al., J. Biol. Chem. 270(51):30408-30414 (1995).