

UBE2G1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2121a

Product Information

Application	WB, IHC-P, E
Primary Accession	P62253
Other Accession	P62255 , P62254 , Q4R5Y8 , NP_003333
Reactivity	Human, Mouse
Predicted	Monkey, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB4167
Calculated MW	19509
Antigen Region	1-30

Additional Information

Gene ID	7326
Other Names	Ubiquitin-conjugating enzyme E2 G1, E217K, UBC7, Ubiquitin carrier protein G1, Ubiquitin-protein ligase G1, Ubiquitin-conjugating enzyme E2 G1, N-terminally processed, UBE2G1, UBE2G
Target/Specificity	This UBE2G1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human UBE2G1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	UBE2G1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	UBE2G1
Synonyms	UBE2G

Function Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro catalyzes 'Lys-48'-, as well as 'Lys-63'-linked polyubiquitination. May be involved in degradation of muscle-specific proteins. Mediates polyubiquitination of CYP3A4.

Tissue Location Widely expressed, mainly in skeletal muscle.

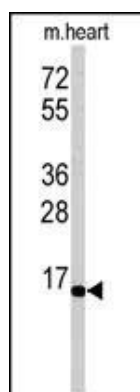
Background

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. UBE2G1 is a member of the E2 ubiquitin-conjugating enzyme family. The encoded protein shares 98-100% sequence identity with the zebrafish, frog, rat and mouse counterparts, which indicates that this enzyme is highly conserved in eukaryotes.

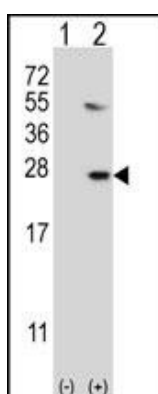
References

Watanabe, T.K., et al., Cytogenet. Cell Genet. 74 (1-2), 146-148 (1996).

Images

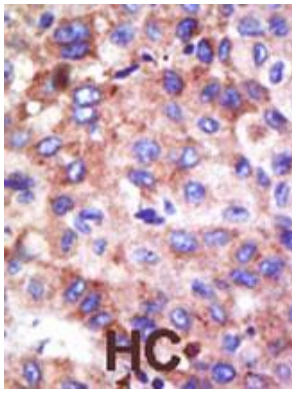


Western blot analysis of anti-UBE2G1 Antibody (N-term) (Cat.#AP2121a) in mouse heart tissue lysates (35ug/lane). UBE2G1 (arrow) was detected using the purified Pab.



Western blot analysis of UBE2G1 (arrow) using rabbit polyclonal UBE2G1 Antibody (R11) (Cat.#AP2121a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the UBE2G1 gene.

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.



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