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UBE2C Antibody (N-term G25)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2119d

Product Information

Application	WB, E
Primary Accession	O00762
Other Accession	Q9D1C1, Q4R9D1, Q32PA5
Reactivity	Human
Predicted	Bovine, Monkey, Mouse, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18249
Calculated MW	19652
Antigen Region	10-39

Additional Information

Gene ID	11065
Other Names	Ubiquitin-conjugating enzyme E2 C, UbcH10, Ubiquitin carrier protein C, Ubiquitin-protein ligase C, UBE2C, UBCH10
Target/Specificity	This UBE2C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 10-39 amino acids from the N-terminal region of human UBE2C.
Dilution	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	UBE2C Antibody (N-term G25) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	UBE2C
Synonyms	UBCH10

Function

Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro catalyzes 'Lys-11'- and 'Lys-48'-linked polyubiquitination. Acts as an essential factor of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated ubiquitin ligase that controls progression through mitosis. Acts by initiating 'Lys-11'-linked polyubiquitin chains on APC/C substrates, leading to the degradation of APC/C substrates by the proteasome and promoting mitotic exit.

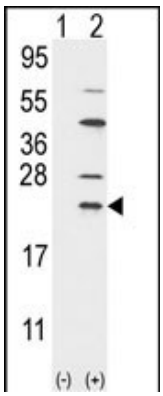
Background

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. UBE2C is a member of the E2 ubiquitin-conjugating enzyme family. This enzyme is required for the destruction of mitotic cyclins and for cell cycle progression.

References

Okamoto, Y., et al., Cancer Res. 63(14):4167-4173 (2003).
Lin, Y., et al., J. Biol. Chem. 277(24):21913-21921 (2002).
Townsley, F.M., et al., Proc. Natl. Acad. Sci. U.S.A. 94(6):2362-2367 (1997).

Images



Western blot analysis of UBE2C (arrow) using rabbit polyclonal UBE2C Antibody (N-term G25) (Cat. #AP2119d). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the UBE2C gene (Lane 2) (Origene Technologies).(8ug/ml)

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