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UBE4A Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14678c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q14139
Other Accession	A5PKG6, NP_004779.2
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34528
Calculated MW	122561
Antigen Region	451-479

Additional Information

Gene ID	9354
Other Names	Ubiquitin conjugation factor E4 A, 632-, UBE4A (HGNC:12499)
Target/Specificity	This UBE4A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 451-479 amino acids from the Central region of human UBE4A.
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 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	UBE4A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	UBE4A (HGNC:12499)
Function	Ubiquitin-protein ligase that probably functions as an E3 ligase in conjunction with specific E1 and E2 ligases. May also function as an E4 ligase mediating the assembly of polyubiquitin chains on substrates ubiquitinated

by another E3 ubiquitin ligase. Mediates 'Lys-48'-linked polyubiquitination of substrates.

Cellular Location Cytoplasm {ECO:0000250|UniProtKB:E9Q735}.

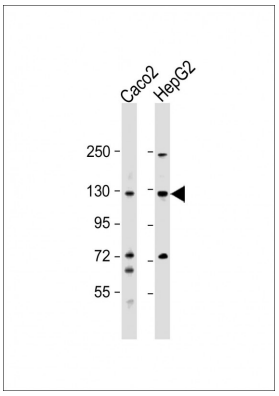
Background

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. This gene encodes an additional conjugation factor, E4, which is involved in multiubiquitin chain assembly.

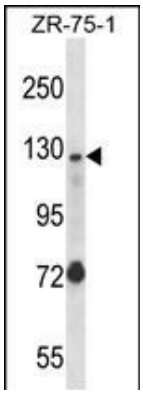
References

Shi, D., et al. Proc. Natl. Acad. Sci. U.S.A. 106(38):16275-16280(2009)
Sakiyama, T., et al. Inflamm. Bowel Dis. 14(3):310-317(2008)
Yang, Y., et al. Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi 23(6):504-506(2007)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Spinette, S., et al. Cell Cycle 3(12):1638-1644(2004)

Images

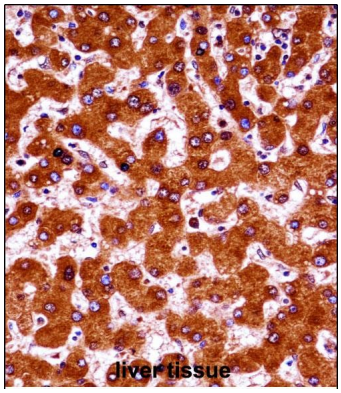


All lanes : Anti-UBE4A Antibody (Center) at 1:1000 dilution Lane 1: Caco2 whole cell lysate Lane 2: HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 123 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



UBE4A Antibody (Center) (Cat. #AP14678c) western blot analysis in ZR-75-1 cell line lysates (35ug/lane).This demonstrates the UBE4A antibody detected the UBE4A protein (arrow).

UBE4A Antibody (Center) (AP14678c)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 UBE4A Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



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