

UBE2O Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP58983

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9C0C9
Reactivity	Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	141293

Additional Information

Gene ID	63893
Other Names	(E3-independent) E2 ubiquitin-conjugating enzyme, 2.3.2.24, E2/E3 hybrid ubiquitin-protein ligase UBE2O, Ubiquitin carrier protein O, Ubiquitin-conjugating enzyme E2 O, Ubiquitin-conjugating enzyme E2 of 230 kDa, Ubiquitin-conjugating enzyme E2-230K, Ubiquitin-protein ligase O, UBE2O, KIAA1734
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	UBE2O
Synonyms	KIAA1734
Function	E2/E3 hybrid ubiquitin-protein ligase that displays both E2 and E3 ligase activities and mediates monoubiquitination of target proteins (PubMed: 23455153 , PubMed: 24703950). Negatively regulates TRAF6-mediated NF-kappa-B activation independently of its E2 activity (PubMed: 23381138). Acts as a positive regulator of BMP7 signaling by mediating monoubiquitination of SMAD6, thereby regulating adipogenesis (PubMed: 23455153). Mediates monoubiquitination at different sites of the nuclear localization signal (NLS) of BAP1, leading to cytoplasmic retention of BAP1. Also able to monoubiquitinate the NLS of other chromatin-associated proteins, such as INO80 and CXXC1, affecting their subcellular location (PubMed: 24703950). Acts as a regulator of retrograde transport by assisting the TRIM27:MAGEL2 E3 ubiquitin ligase complex to mediate 'Lys-63'-linked ubiquitination of WASHC1, leading to promote endosomal F-actin assembly

(PubMed:[23452853](#)). Mediates the monoubiquitination of cytoplasmic CTNNA1 to promote cell-to- extracellular matrix adhesions. Mechanistically, ubiquitination of CTNNA1 triggers a binding switch from beta-catenin/CTNNB1 to vinculin/VCL that directs CTNNA1 to mediate matrix adhesion (PubMed:[40983751](#)).

Cellular Location

Cytoplasm. Nucleus. Note=Mainly localizes to the cytoplasm

Tissue Location

Predominantly expressed in skeletal muscle and heart.

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