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UBE2O antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI14151

Product Information

Application	WB
Primary Accession	Q9C0C9
Other Accession	NM_022066, NP_071349
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Chicken, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	141293

Additional Information

Gene ID	63893
Alias Symbol	E2-230K, FLJ12878, KIAA1734
Other Names	E2/E3 hybrid ubiquitin-protein ligase UBE2O, 6.3.2.-, 6.3.2.19, 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
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-UBE2O antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	UBE2O antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

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).

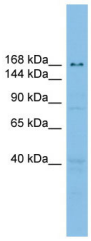
Cellular Location Cytoplasm. Nucleus. Note=Mainly localizes to the cytoplasm

Tissue Location Predominantly expressed in skeletal muscle and heart.

References

Nagase T.,et al.DNA Res. 7:347-355(2000).
Zody M.C.,et al.Nature 440:1045-1049(2006).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Images



WB Suggested Anti-UBE2O Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: RPMI 8226 cell lysate
UBE2O is supported by BioGPS gene expression data to be expressed in RPMI 8226

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