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RB1CC1/FIP200 Rabbit pAb

Catalog # AP100206

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q8TDY2
Other Accession	Q8TDY2
Reactivity	Chicken
Predicted	Rat, Pig, Human, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	183091
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RB1CC1
Epitope Specificity	501-600/1594
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBUNIT	Part of a complex consisting of ATG13/KIAA0652, ULK1 and RB1CC1. This complex associates with ATG101. Interacts with PTK2/FAK1 and PTK2B/PYK2.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene interacts with signaling pathways to coordinately regulate cell growth, cell proliferation, apoptosis, autophagy, and cell migration. This tumor suppressor also enhances retinoblastoma 1 gene expression in cancer cells. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Nov 2009].

Additional Information

Gene ID	9821
Other Names	ATG17; CC1; FIP200; PPP1R131; 2900055E04Rik; 5930404L04Rik; LaXp180; RBCC1_HUMAN; RB1CC1; FAK family kinase-interacting protein of 200 kDa (FIP200); KIAA0203; RBICC; RBCC1_MOUSE; Coiled-coil-forming protein 1; RB1 inducible coiled-coil 1; 200 kDa FAK family kinase-interacting protein; phosphatase 1, regulatory subunit 131
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	RB1CC1 (HGNC:15574)
Synonyms	KIAA0203, RBICC
Function	Involved in autophagy (PubMed: 21775823). Regulates early events but also late events of autophagosome formation through direct interaction with Atg16L1 (PubMed:23392225). Required for the formation of the autophagosome-like double-membrane structure that surrounds the Salmonella-containing vacuole (SCV) during S.typhimurium infection and subsequent xenophagy (By similarity). Involved in repair of DNA damage caused by ionizing radiation, which subsequently improves cell survival by decreasing apoptosis (By similarity). Inhibits PTK2/FAK1 and PTK2B/PYK2 kinase activity, affecting their downstream signaling pathways (PubMed:10769033, PubMed:12221124). Plays a role as a modulator of TGF-beta-signaling by restricting substrate specificity of RNF111 (By similarity). Functions as a DNA-binding transcription factor (PubMed:12095676). Is a potent regulator of the RB1 pathway through induction of RB1 expression (PubMed:14533007). Plays a crucial role in muscular differentiation (PubMed:12163359). Plays an indispensable role in fetal hematopoiesis and in the regulation of neuronal homeostasis (By similarity).
Cellular Location	Nucleus. Cytoplasm. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9ESK9}. Preautophagosomal structure. Lysosome Note=Under starvation conditions, is localized to puncate structures primarily representing the isolation membrane that sequesters a portion of the cytoplasm resulting in the formation of an autophagosome
Tissue Location	Expression levels correlated closely with those of RB1 in cancer cell lines as well as in various normal human tissues Abundantly expressed in human musculoskeletal and cultured osteosarcoma cells.

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