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[Marker Primary Antibody]

Rabbit Anti-RB1CC1/FIP200/HRP Conjugated antibody

Catalog Number: SL8165R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-RB1CC1/FIP200/HRP
Immunogen:	KLH conjugated synthetic peptide derived from human RB1CC1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ELISA=1:500-5000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Chicken(predicted:Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Background:	background: 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]. **Function:** Implicated in the regulation of RB1 expression. Functions as a DNA-binding transcription factor. Is a potent regulator of the RB1 pathway and a mediator that plays a crucial role in muscular differentiation. Expression is, thus, a prerequisite for myogenic differentiation. Involved in autophagy. Required for autophagosome formation. Inhibits PTK2/FAK1 and PTK2B/PYK2 activity and activation of downstream signaling pathways. **Subunit:** Part of a complex consisting of ATG13/KIAA0652, ULK1 and

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	RB1CC1. This complex associates with ATG101. Interacts with PTK2/FAK1 and PTK2B/PYK2. **Subcellular Location:** Nucleus. Cytoplasm, cytosol. Preautophagosomal structure. 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 Specificity:** 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. **Database links:** **Entrez Gene:** 9821 Human **Entrez Gene:** 12421 Mouse **Entrez Gene:** 312927 Rat Omim: 606837 Human **SwissProt:** Q8TDY2 Human **SwissProt:** Q9ESK9 Mouse **Unigene:** 196102 Human **Unigene:** 293811 Mouse **Unigene:** 33137 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.