

Rabbit RBCK1 Polyclonal Antibody | anti-RBCK1 antibody

RBCK1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329085	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(86%), Sheep(100%), Rabbit(86%), Dog(100%)	ELISA

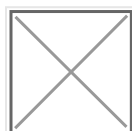
PRODUCT SYNONYMS

RBCK1; Polyclonal Antibody; RBCK1 Antibody; C20orf18; Chromosome 20 open reading frame 18; HBV associated factor 4; HBV-associated factor 4; Heme-oxidized IRP2 ubiquitin ligase 1; Hepatitis B virus X associated protein 4; Hepatitis B virus X-associated protein 4; HOIL 1L; HOIL-1; HOIL-1L; HOIL1; HOIL1L; RanBP type and C3HC4 type zinc finger containing 1; RanBP-type and C3HC4-type zinc finger-containing protein 1; RBCC protein interacting with PKC1; Rbck1; RBCK2; RING finger protein 54; RNF54; UB713_HUMAN; UBCE7IP3; Ubiquitin conjugating enzyme 7 interacting protein 3; Ubiquitin-conjugating enzyme 7-interacting protein 3; XAP3; XAP4; ZRANB4; anti-RBCK1 antibody

PRODUCT SPECIFICATIONS

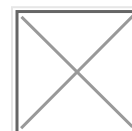
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(86%), Sheep(100%), Rabbit(86%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	RBCK1 Antibody detects endogenous levels of total RBCK1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	510
Applicable Applications for anti-RBCK1 antibody	ELISA
Immunogen	A synthesized peptide derived from human RBCK1, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA329085 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329085) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from Mouse kidney, using RBCK1 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RBCK1 antibody	Function: E3 ubiquitin-protein ligase, which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, such as UBE2L3/UBCM4, and then transfers it to substrates. Functions as an E3 ligase for oxidized IREB2 and both heme and oxygen are necessary for IREB2 ubiquitination. Promotes ubiquitination of TAB2 and IRF3 and their degradation by the proteasome. Component of the LUBAC complex which conjugates linear ('Met-1'-linked) polyubiquitin chains to substrates and plays a key role in NF-kappa-B activation and regulation of inflammation. LUBAC conjugates linear polyubiquitin to IKBKG and RIPK1 and is involved in activation of the canonical NF-kappa-B and the JNK signaling pathways. Linear ubiquitination mediated by the LUBAC complex interferes with TNF-induced cell death and thereby prevents inflammation. LUBAC is recruited to the TNF-R1 signaling complex (TNF-RSC) following polyubiquitination of TNF-RSC components by BIRC2 and/or BIRC3 and to conjugate linear polyubiquitin to IKBKG and possibly other components contributing to the stability of the complex. Together with OTULIN, the LUBAC complex regulates the canonical Wnt signaling during angiogenesis. Binds polyubiquitin of different linkage types. Post Translational Modifications: Auto-ubiquitinated. Auto-ubiquitination leads to degradation by the proteasome (By similarity).Phosphorylated. In vitro, phosphorylation inhibits auto-ubiquitination activity (By similarity). Subunit Structure: Component of the LUBAC complex (linear ubiquitin chain assembly complex) which consists of SHARPIN, RBCK1 and RNF31. LUBAC has a MW of approximately 600 kDa suggesting a heteromultimeric assembly of its subunits. Interacts with beta-I-type (PRKCB1) and zeta-type protein kinase C (PRKCZ) and with UBE2L3. Interacts with PRKCH. Isoform 1 and isoform 2 interact with IREB2 only in iron-rich conditions. Associates with the TNF-R1 signaling complex (TNF-RSC) in a stimulation-dependent manner. Interacts with EYA1, TAB2, TAB3, MAP3K7 TRAF6 and RIPK1. Interacts with IRF3.(Microbial infection) Interacts with hepatitis B virus/HBV protein HBx; this interaction is required to activate transcription of the viral genome. Similarity: The RanBP2-type zinc finger, also called Np14 zinc finger (NZF), mediates binding to 'Met-1'-linked polyubiquitins.The UBL domain mediates association with RNF31 via interaction with its UBA domain.Belongs to the RBR family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	144953898
NCBI GeneID	10616
NCBI Accession #	NP_112506.2
NCBI GenBank Nucleotide #	NP_112506.2
UniProt Accession #	Q9BYM8
Molecular Weight	Observed Molecular Weight: (Observed)57kD. Predicted Molecular Weight: (Calculated)58kDa.
NCBI Official Full Name	ranBP-type and C3HC4-type zinc finger-containing protein 1 isoform 2
NCBI Official Synonym Full Names	RANBP2-type and C3HC4-type zinc finger containing 1
NCBI Official Symbol	RBCK1
NCBI Official Synonym Symbols	XAP3; XAP4; HOIL1; PBMEI; PGBM1; RBCK2; RNF54; HOIL-1; ZRANB4; C20orf18; UBCE7IP3
NCBI Protein Information	ranBP-type and C3HC4-type zinc finger-containing protein 1
UniProt Protein Name	RanBP-type and C3HC4-type zinc finger-containing protein 1
UniProt Gene Name	RBCK1
UniProt Synonym Gene Names	C20orf18; RNF54; UBCE7IP3; XAP3; XAP4; HOIL-1
UniProt Entry Name	HOIL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

