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CLEC16A Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21278b

Product Information

Application	WB, E
Primary Accession	Q2KHT3
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB51799
Calculated MW	117715

Additional Information

Gene ID	23274
Other Names	Protein CLEC16A, C-type lectin domain family 16 member A {ECO:0000312|HGNC:HGNC:29013}, CLEC16A (HGNC:29013), KIAA0350
Target/Specificity	This CLEC16A antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 773-805 amino acids from the C-terminal region of human CLEC16A.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CLEC16A Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CLEC16A (HGNC:29013)
Synonyms	KIAA0350
Function	Regulator of mitophagy through the upstream regulation of the RNF41/NRDP1-PRKN pathway. Mitophagy is a selective form of autophagy

	necessary for mitochondrial quality control. The RNF41/NRDP1-PRKN pathway regulates autophagosome-lysosome fusion during late mitophagy. May protect RNF41/NRDP1 from proteasomal degradation, RNF41/NRDP1 which regulates proteasomal degradation of PRKN. Plays a key role in beta cells functions by regulating mitophagy/autophagy and mitochondrial health.
Cellular Location	Endosome membrane {ECO:0000250|UniProtKB:Q80U30}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q80U30}. Lysosome membrane {ECO:0000250|UniProtKB:Q80U30}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q80U30}. Note=Associates with the endolysosome membrane. {ECO:0000250|UniProtKB:Q80U30}
Tissue Location	Almost exclusively expressed in immune cells, including dendritic cells, B-lymphocytes and natural killer cells

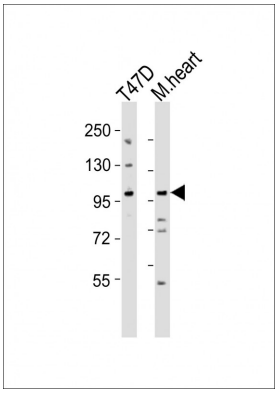
Background

Regulator of mitophagy through the upstream regulation of the RNF41/NRDP1-PARK2 pathway. Mitophagy is a selective form of autophagy necessary for mitochondrial quality control. The RNF41/NRDP1-PARK2 pathway regulates autophagosome-lysosome fusion during late mitophagy. May protect RNF41/NRDP1 from proteosomal degradation, RNF41/NRDP1 which regulates proteosomal degradation of PARK2. Plays a key role in beta cells functions by regulating mitophagy/autophagy and mitochondrial health.

References

Nagase T.,et al.DNA Res. 4:141-150(1997).
Nakajima D.,et al.DNA Res. 9:99-106(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hakonarson H.,et al.Nature 448:591-594(2007).
Soleimanpour S.A.,et al.Cell 157:1577-1590(2014).

Images



All lanes : Anti-CLEC16A Antibody (C-term) at 1:1000 dilution Lane 1: T47D whole cell lysates Lane 2: mouse heart lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 118 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- CLEC16A regulates splenocyte and NK cell function in part through MEK signaling.
- Inducible knockout of Clec16a in mice results in sensory neurodegeneration

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