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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
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

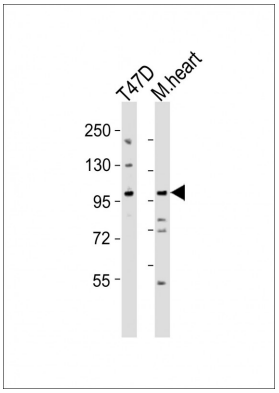
Background

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

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