

RLN3 Antibody

Catalog # ASC11924

Product Information

Application	WB, IF, E
Primary Accession	Q8WFX3
Other Accession	NP_543140 , 18254464
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	42334
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	RLN3 antibody can be used for detection of RLN3 by Western blot at 1 - 2 μ g/ml. For immunofluorescence start at 20 μ g/mL.

Additional Information

Other Names	Cytochrome b, Complex III subunit 3, Complex III subunit III, Cytochrome b-c1 complex subunit 3, Ubiquinol-cytochrome-c reductase complex cytochrome b subunit, mt-cyb, cob, cytb, mtcyb
Target/Specificity	RLN3; RLN3 antibody is human specific. RLN3 antibody is predicted to not cross-react with other members of the Relaxin protein family.
Reconstitution & Storage	RLN3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	RLN3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	mt-cyb
Synonyms	cob, cytb, mtcyb
Function	Component of the ubiquinol-cytochrome c reductase complex (complex III or cytochrome b-c1 complex) that is part of the mitochondrial respiratory chain. The b-c1 complex mediates electron transfer from ubiquinol to cytochrome c. Contributes to the generation of a proton gradient across the mitochondrial membrane that is then used for ATP synthesis.
Cellular Location	Mitochondrion inner membrane {ECO:0000250 UniProtKB:P00157}; Multi-pass membrane protein {ECO:0000250 UniProtKB:P00157}

Background

Relaxin-3 (RLN3) is a member of Relaxin family, a group of endocrine and autocrine/paracrine hormones that belong to the insulin gene superfamily (1,2). RLN3 can bind to and activate three relaxin-family peptide receptors: RXFP1, RXFP3, and RXFP4 (3). In contrast to the widespread expression of the related proteins RLN1 and RLN2, RLN3 is predominantly expressed in brain and to a lesser extent in the thymus, kidney and spleen (1). RLN3 has been suggested to play a role in feeding, metabolism, stress, arousal, learning, and memory (4).

References

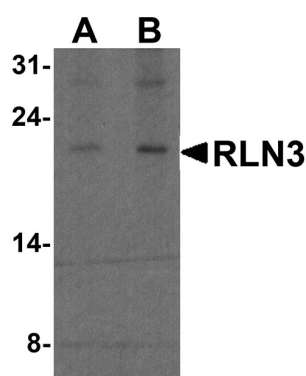
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Wilkinson TN and Bathgate RA. The evolution of the relaxin peptide family and their receptors. *Adv. Exp. Med. Biol.* 2007; 612:1-13.

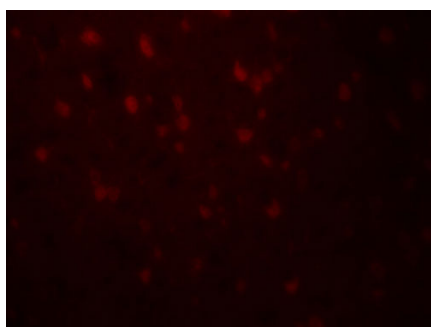
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Bathgate RAD, Halls ML, van der Westhuizen ET, et al. Relaxin family peptides and their receptors. *Physiol. Rev.* 2012; 93:405-80.

Images



Western blot analysis of RLN3 in human brain tissue lysate with RLN3 antibody at (A) 1 and (B) 2 µg/ml.



Immunofluorescence of RLN3 in human brain tissue with RLN3 antibody at 20 µg/mL.

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