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RLN3 Antibody
Catalog # ASC11924

Specification

RLN3 Antibody - Product Information

Application	**WB, IF**
Primary Accession	Q8WFX3
Other Accession	NP_543140, 18254464
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 16 kDa; Observed: 20 kDa KDa**
Application Notes	**RLN3 antibody can be used for detection of RLN3 by Western blot at 1 - 2 µg/ml. For immunofluorescence start at 20 µg/mL.**

RLN3 Antibody - Additional Information

Gene ID	**117579**

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℃ for three months and -20℃, stable for up to one year.

Precautions
RLN3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

RLN3 Antibody - 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}

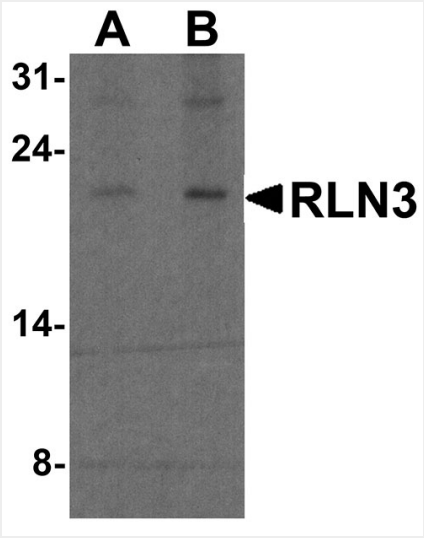
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RLN3 Antibody - Protocols

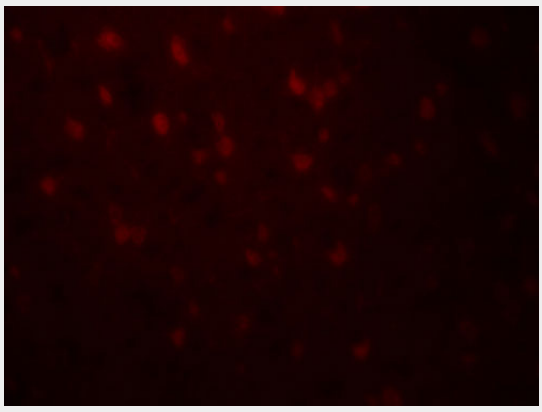
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RLN3 Antibody - 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.

RLN3 Antibody - 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).

RLN3 Antibody - References

Bathgate RA, Samuel CS, Burazin TC, et al. Human relaxin gene 3 (H3) and the equivalent mouse relaxin (M3) gene. Novel members of the relaxin peptide family. J. Biol. Chem. 2002; 277:1148-57.
Wilkinson TN and Bathgate RA. The evolution of the relaxin peptide family and their receptors. Adv. Exp. Med. Biol. 2007; 612:1-13.
Silvertown JD, Neschadim A, Liu HN, et al. Relaxin-3 and receptors in the human and rhesus brain and reproductive tissues. Regul. Pept. 2010; 159:44-53.
Bathgate RAD, Halls ML, van der Westhuizen ET, et al. Relaxin family peptides and their receptors. Physiol. Rev. 2012; 93:405-80.