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RCN3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5788c

Product Information

Application	FC, WB, E
Primary Accession	Q96D15
Other Accession	Q8BH97, Q2KJ39, NP_065701.2
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27325
Calculated MW	37493
Antigen Region	134-163

Additional Information

Gene ID	57333
Other Names	Reticulocalbin-3, EF-hand calcium-binding protein RLP49, RCN3
Target/Specificity	This RCN3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 134-163 amino acids from the Central region of human RCN3.
Dilution	FC~~1:10~50 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	RCN3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RCN3 (HGNC:21145)
Function	Probable molecular chaperone assisting protein biosynthesis and transport in the endoplasmic reticulum (PubMed:16433634, PubMed:28939891). Required for the proper biosynthesis and transport of pulmonary

surfactant-associated protein A/SP-A, pulmonary surfactant- associated protein D/SP-D and the lipid transporter ABCA3 (By similarity). By regulating both the proper expression and the degradation through the endoplasmic reticulum-associated protein degradation pathway of these proteins plays a crucial role in pulmonary surfactant homeostasis (By similarity). Has an anti-fibrotic activity by negatively regulating the secretion of type I and type III collagens (PubMed:28939891). This calcium-binding protein also transiently associates with immature PCSK6 and regulates its secretion (PubMed:16433634).

Cellular Location Endoplasmic reticulum lumen

Tissue Location Widely expressed..

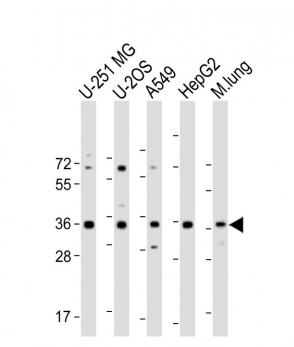
Background

Calcipressin 3 inhibits calcineurin dependent transcriptional responses by binding to the catalytic domain of calcineurin A, and may play a role during central nervous system development. Highest expression occurs in heart, skeletal muscle kidney, liver and peripheral blood leukocytes.

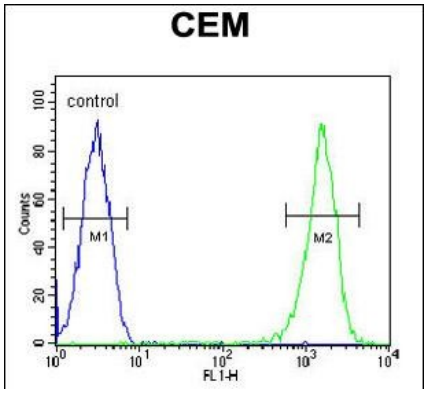
References

Tsuji, A., et al. Biochem. J. 396(1):51-59(2006)
Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)
Hu, R.M., et al. Proc. Natl. Acad. Sci. U.S.A. 97(17):9543-9548(2000)

Images



All lanes : Anti-RCN3 Antibody (Center) at 1:2000 dilution Lane 1: U-251 MG whole cell lysate Lane 2: U-2OS whole cell lysate Lane 3: A549 whole cell lysate Lane 4: HepG2 whole cell lysate Lane 5: Mouse lung lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 37 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



RCN3 Antibody (Center) (Cat. #AP5788c) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- Secreted RCN3 acts as an early epithelial-fibroblast mediator via TGFbetaR1-Smad signaling in post-ALI pulmonary fibrosis.
- Reticulocalbin 3 deficiency in alveolar epithelium attenuated LPS-induced ALI via NFκB signaling

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