

Rabbit anti-Human RCN1 Polyclonal Antibody | anti-RCN1 antibody

Anti-RCN1 Antibody, Rabbit Polyclonal

CATALOG # AAA255929	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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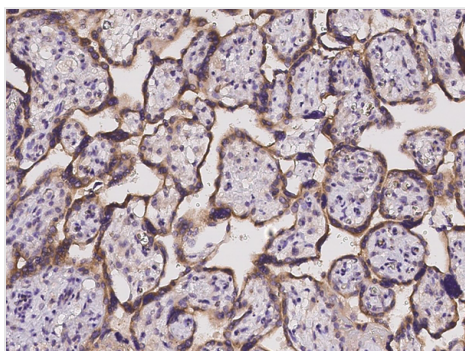
PRODUCT SYNONYMS

RCN1; Polyclonal Antibody; Anti-RCN1 Antibody; Rabbit Polyclonal; RCN1 Antibody; Rabbit PAb; Antigen Affinity Purified; reticulocalbin 1; EF-hand calcium binding domain; Anti-HEL-S-84 Antibody; Anti-PIG20 Antibody; Anti-RCAL Antibody; Anti-RCN Antibody; anti-RCN1 antibody

PRODUCT SPECIFICATIONS

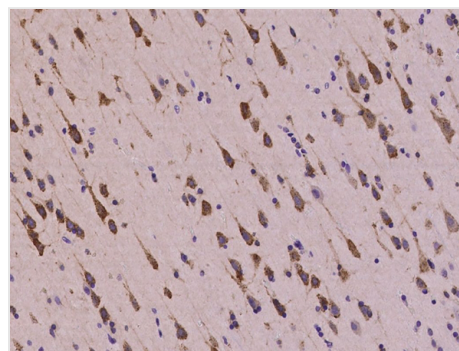
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human RCN1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-RCN1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human RCN1 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human RCN1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



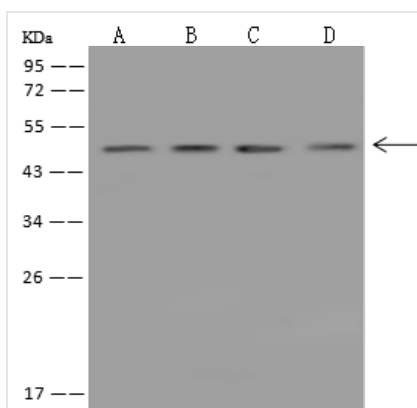
IHC (Immunohistochemistry)

Immunochemical staining of human RCN1 in human placenta with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human RCN1 in human brain with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-RCN1 rabbit polyclonal antibody at 1:500 dilution
 Lane A: HEK-293 Whole Cell Lysate
 Lane B: SH-SY5Y Whole Cell Lysate
 Lane C: HeLa Whole Cell Lysate
 Lane D: 293 Whole Cell Lysate
 Lysates/proteins at 30 ug per lane.
 Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.
 Developed using the ECL technique.
 Performed under reducing conditions.
 Predicted band size: 39 kDa
 Observed band size: 46 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-RCN1 antibody

Reticulocalbin 1 (RCN1), an endoplasmic reticulum (ER)-resident Ca^{2+} -binding protein, is dysregulated in cancers. RCN1 may promote cell survival and serve as a useful target for cancer therapy. RCN1 is a H/KDEL protein with six EF-hand, calcium-binding motifs. RCN1, a member of the CREC family, is transactivated by nuclear factor kappa B (NF-kappaB) during ER stress and inhibits ER stress-induced apoptosis. The depletion of RCN1 increases the UPR during drug-induced ER stress by activating PRKR-like ER kinase-CCAAT/enhancer-binding protein-homologous protein (PERK-CHOP) signaling, thus inducing apoptosis. Furthermore, The first two EF-hand calcium-binding motifs of RCN1 specifically interact with inositol 1, 4, 5-trisphosphate (IP3) receptor type 1 (IP3R1) on loop 3 of its ER luminal domain and inhibit ER calcium release and apoptosis.

References

Xu S, et al. (2017) Rcn1 suppresses er stress-induced apoptosis via calcium homeostasis and perk-chop signaling. *Oncogenesis* 6 (3): e304.
 Liu X, et al. (2018) Downregulation of reticulocalbin-1 differentially facilitates apoptosis and necroptosis in human prostate cancer cells. *Cancer Sci* 109 (4): 1147-1157.
 Cooper CR, et al. (2008) Novel surface expression of reticulocalbin 1 on bone endothelial cells and human prostate cancer cells is regulated by tnfr-alpha. *J Cell Biochem* 104 (6): 2298-2309.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/polyclonal/rcn1-antibody-immunohistochemistry-western-blot-elisa/255929>