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CALU Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12308b

Product Information

Application	WB, IHC-P, E
Primary Accession	O43852
Other Accession	O35783, Q6XLQ7, O35887, Q3T0K1, NP_001124146.1, NP_001210.1
Reactivity	Human
Predicted	Bovine, Mouse, Rabbit, Rat, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31090
Calculated MW	37107
Antigen Region	217-246

Additional Information

Gene ID	813
Other Names	Calumenin, Crocalbin, IEF SSP 9302, CALU
Target/Specificity	This CALU antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 217-246 amino acids from the C-terminal region of human CALU.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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	CALU Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CALU
Function	Involved in regulation of vitamin K-dependent carboxylation of multiple N-terminal glutamate residues. Seems to inhibit gamma- carboxylase GGCX. Binds 7 calcium ions with a low affinity (By similarity).

Cellular Location	Endoplasmic reticulum membrane. Golgi apparatus. Secreted. Melanosome. Sarcoplasmic reticulum lumen. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
Tissue Location	Ubiquitously expressed. Expressed at high levels in heart, placenta and skeletal muscle, at lower levels in lung, kidney and pancreas and at very low levels in brain and liver

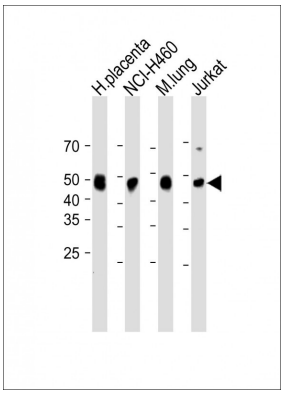
Background

The product of this gene is a calcium-binding protein localized in the endoplasmic reticulum (ER) and it is involved in such ER functions as protein folding and sorting. This protein belongs to a family of multiple EF-hand proteins (CERC) that include reticulocalbin, ERC-55, and Cab45 and the product of this gene. Alternatively spliced transcript variants encoding different isoforms have been identified.

References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Carlquist, J.F., et al. J. Thromb. Thrombolysis 30(3):358-364(2010)
Hernandez-Romero, D., et al. Ann. Med. 42(6):439-446(2010)
Harada, T., et al. Thromb. Res. 126(3):183-190(2010)
Voora, D., et al. Clin. Pharmacol. Ther. 87(4):445-451(2010)

Images



All lanes: Anti-CALU Antibody (C-term) at 1:1000 dilution Lane 1: Human placenta lysate Lane 2: NCI-H460 whole cell lysate Lane 3: Mouse lung lysate Lane 4: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 47 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



CALU Antibody (C-term) (Cat. #AP12308b)immunohistochemistry analysis in formalin fixed and paraffin embedded human placenta tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CALU Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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