10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

C15orf24 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11145c

Product Information

Application	WB, E
Primary Accession	Q9NPA0
Other Accession	Q9EP72, Q4R5V2, A5PJA8, NP_064539.1
Reactivity	Mouse
Predicted	Bovine, Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27632
Calculated MW	26471
Antigen Region	94-122

Additional Information

Gene ID	56851
Other Names	ER membrane protein complex subunit 7, EMC7, C11orf3, C15orf24
Target/Specificity	This C15orf24 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 94-122 amino acids from the Central region of human C15orf24.
Dilution	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	C15orf24 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	EMC7
Synonyms	C11orf3, C15orf24
Function	Part of the endoplasmic reticulum membrane protein complex (EMC) that

	enables the energy-independent insertion into endoplasmic reticulum membranes of newly synthesized membrane proteins (PubMed:29242231, PubMed:29809151, PubMed:30415835, PubMed:32439656, PubMed:32459176). Preferentially accommodates proteins with transmembrane domains that are weakly hydrophobic or contain destabilizing features such as charged and aromatic residues (PubMed:29242231, PubMed:29809151, PubMed:30415835). Involved in the cotranslational insertion of multi-pass membrane proteins in which stop-transfer membrane-anchor sequences become ER membrane spanning helices (PubMed:29809151, PubMed:30415835). It is also required for the post-translational insertion of tail-anchored/TA proteins in endoplasmic reticulum membranes (PubMed:29242231, PubMed:29809151). By mediating the proper cotranslational insertion of N-terminal transmembrane domains in an N-exo topology, with translocated N- terminus in the lumen of the ER, controls the topology of multi-pass membrane proteins like the G protein-coupled receptors (PubMed:30415835). By regulating the insertion of various proteins in membranes, it is indirectly involved in many cellular processes (Probable).
Cellular Location	Endoplasmic reticulum membrane; Single-pass type I membrane protein

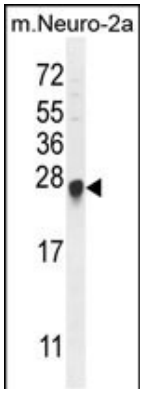
Background

The exact function of C15orf24 remains unknown.

References

Domal-Kwiatkowska, D., et al. Kardiol Pol 64(11):1287-1291(2006)
Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)
O'Brien, K.P., et al. Biochem. Biophys. Res. Commun. 273(1):90-94(2000)

Images



C15orf24 Antibody (Center) (Cat. #AP11145c) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane).This demonstrates the C15orf24 antibody detected the C15orf24 protein (arrow).

Citations

- The ER membrane protein complex promotes biogenesis of sterol-related enzymes maintaining cholesterol homeostasis.