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

SEC22B Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14062c

Product Information

Application	WB, IHC-P, E
Primary Accession	O75396
Other Accession	Q4KM74, O08547, O08595, NP_004883.2
Reactivity	Human
Predicted	Hamster, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34149
Calculated MW	24741
Antigen Region	75-104

Additional Information

Gene ID	9554
Other Names	Vesicle-trafficking protein SEC22b, ER-Golgi SNARE of 24 kDa, ERS-24, ERS24, SEC22 vesicle-trafficking protein homolog B, SEC22 vesicle-trafficking protein-like 1, SEC22B, SEC22L1
Target/Specificity	This SEC22B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 75-104 amino acids from the Central region of human SEC22B.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (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	SEC22B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SEC22B
Synonyms	SEC22L1

Function	SNARE involved in targeting and fusion of ER-derived transport vesicles with the Golgi complex as well as Golgi-derived retrograde transport vesicles with the ER.
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q4KM74}; Single-pass type IV membrane protein {ECO:0000250|UniProtKB:Q4KM74}. Endoplasmic reticulum-Golgi intermediate compartment membrane {ECO:0000250|UniProtKB:Q4KM74}. Golgi apparatus, cis-Golgi network membrane {ECO:0000250|UniProtKB:Q4KM74} Golgi apparatus, trans-Golgi network membrane {ECO:0000250|UniProtKB:Q4KM74}. Melanosome. Note=Concentrated most in the intermediate compartment/cis-Golgi network and the cis-Golgi cisternae 1 and 2. Greatly reduced in concentration at the trans end of the Golgi apparatus (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065) {ECO:0000250|UniProtKB:Q4KM74, ECO:0000269|PubMed:17081065}

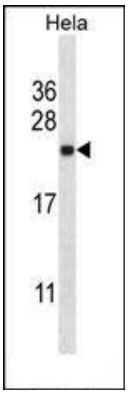
Background

The protein encoded by this gene is a member of the SEC22 family of vesicle trafficking proteins. It seems to complex with SNARE and it is thought to play a role in the ER-Golgi protein trafficking. This protein has strong similarity to Mus musculus and Cricetulus griseus proteins.

References

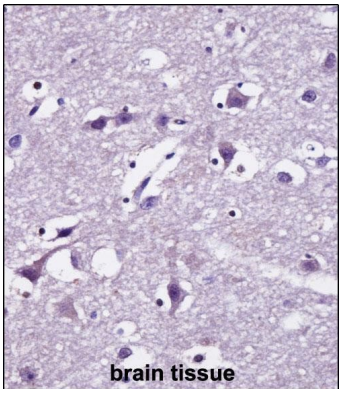
Matsuoka, S., et al. Science 316(5828):1160-1166(2007)
Chi, A., et al. J. Proteome Res. 5(11):3135-3144(2006)
Okumura, A.J., et al. J. Biol. Chem. 281(7):4495-4506(2006)
Breuza, L., et al. J. Biol. Chem. 279(45):47242-47253(2004)
Nakajima, K., et al. EMBO J. 23(16):3216-3226(2004)

Images



SEC22B Antibody (Center) (Cat. #AP14062c) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the SEC22B antibody detected the SEC22B protein (arrow).

SEC22B Antibody (Center) (AP14062c)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SEC22B Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



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