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NSF Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20197B

Product Information

Application	WB, E
Primary Accession	P46459
Other Accession	Q9QUL6, P46460, P18708, NP_006169.2
Reactivity	Human, Mouse
Predicted	Hamster, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB41933
Calculated MW	82594
Antigen Region	668-696

Additional Information

Gene ID	4905
Other Names	Vesicle-fusing ATPase, N-ethylmaleimide-sensitive fusion protein, NEM-sensitive fusion protein, Vesicular-fusion protein NSF, NSF
Target/Specificity	This NSF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 668-696 amino acids from the C-terminal region of human NSF.
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	NSF Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NSF
Function	Required for vesicle-mediated transport. Catalyzes the fusion of transport vesicles within the Golgi cisternae. Is also required for transport from the

endoplasmic reticulum to the Golgi stack. Seems to function as a fusion protein required for the delivery of cargo proteins to all compartments of the Golgi stack independent of vesicle origin. Interaction with AMPAR subunit GRIA2 leads to influence GRIA2 membrane cycling (By similarity).

Cellular Location Cytoplasm.

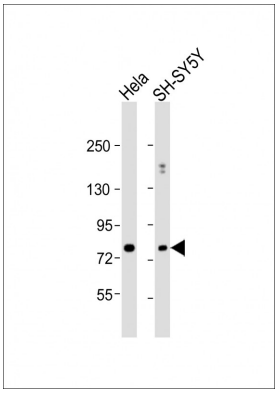
Background

Required for vesicle-mediated transport. Catalyzes the fusion of transport vesicles within the Golgi cisternae. Is also required for transport from the endoplasmic reticulum to the Golgi stack. Seem to function as a fusion protein required for the delivery of cargo proteins to all compartments of the Golgi stack independent of vesicle origin.

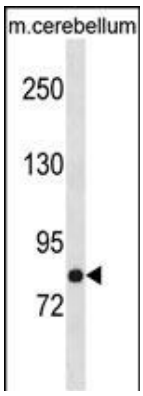
References

Saus, E., et al. J Psychiatr Res 44(14):971-978(2010)
Hamza, T.H., et al. Nat. Genet. 42(9):781-785(2010)
Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010) :
Parashuraman, S., et al. FEBS Lett. 584(6):1251-1256(2010)
Simon-Sanchez, J., et al. Nat. Genet. 41(12):1308-1312(2009)

Images



All lanes : Anti-NSF Antibody (C-term) at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: SH-SY5Y whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 83 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



NSF Antibody (C-term) (Cat. #AP20197b) western blot analysis in mouse cerebellum tissue lysates (35ug/lane).This demonstrates the NSF antibody detected the NSF protein (arrow).