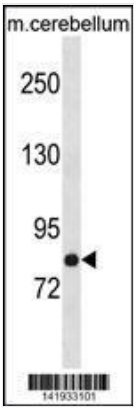
NSF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NSF, Polyclonal Antibody
Full Product Name	NSF, CT (NSF, Vesicle-fusing ATPase, N-ethylmaleimide-sensitive fusion protein, Vesicular-fusion protein NSF) (Azide free) (HRP)
Product Gene Name	anti-NSF antibody
Product Synonym Names	NSF; Vesicle-fusing ATPase; N-ethylmaleimide-sensitive fusion protein; Vesicular-fusion protein NSF
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	82,594 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (44668035..44834830). Location: 17q21
OMIM	601633
3D Structure	ModBase 3D Structure for P46459
Immunogen	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.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-NSF antibody	Antibodies; Enzymes; ATPase
Applications Tested/Suitable for anti-NSF antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-NSF antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NSF antibody	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.
Product References and Citations for anti-NSF antibody	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).

Other Notes	Small volumes of anti-NSF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NSF purchase	MBS6326868 is an antibody targeting NSF. Also known as NSF, CT (NSF, Vesicle-fusing ATPase, N-ethylmaleimide-sensitive fusion protein, Vesicular-fusion protein NSF) (Azide free) (HRP). Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-NSF antibody
NSF Antibody (C-term) western blot analysis in mouse cerebellum tissue lysates (35ug/lane).This demonstrates the NSF antibody detected the NSF protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NSF. It may not necessarily be applicable to this product.

NCBI GI #	156564401
NCBI GeneID	4905
NCBI Accession #	NP_006169.2
UniProt Primary Accession #	P46459
UniProt Secondary Accession #	Q8N6D7; Q9UKZ2; A8K2D9
UniProt Related Accession #	P46459
GenBank Nucleotide #	NM_006178.3
NCBI Official Full Name	vesicle-fusing ATPase
NCBI Official Synonym Full Names	N-ethylmaleimide-sensitive factor
NCBI Official Symbol	NSF
NCBI Official Synonym Symbols	SKD2
UniProt Protein Name	Vesicle-fusing ATPase
UniProt Synonym Protein Names	N-ethylmaleimide-sensitive fusion protein; NEM-sensitive fusion protein; Vesicular-fusion protein NSF
Protein Family	NSFL1 cofactor
UniProt Gene Name	NSF
UniProt Synonym Gene Names	NEM-sensitive fusion protein
UniProt Entry Name	NSF_HUMAN
NCBI Protein Information	vesicle-fusing ATPase; NEM-sensitive fusion protein; vesicular-fusion protein NSF; N-ethylmaleimide-sensitive fusion protein; N-ethylmaleimide-sensitive factor-like protein

UniProt Comments for NSF	NSF: required for intracellular membrane fusion and 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. Functions as a SNAP receptor (SNARE) chaperone which binds, through soluble NSF attachment proteins (SNAPs), to SNARE complexes and utilizes the energy of ATP hydrolysis to disassemble them thus facilitating SNARE recycling. While this is a major function of NSF, it does seem to interact with other proteins, such as the AMPA receptor subunit, GluR2, and beta2-AR and is thought to affect their trafficking patterns. Protein type: Autophagy; Vesicle; Adaptor/scaffold; Protease; EC 3.6.4.6 Chromosomal Location of Human Ortholog: 17q21 Cellular Component: Golgi stack; lysosomal membrane; cytoplasm; postsynaptic density; plasma membrane; dendritic shaft; cytosol Molecular Function: protein binding; metal ion binding; ATPase activity; syntaxin-1 binding; protein complex binding; ATPase activity, coupled; protein kinase binding; Rab GTPase binding; ATP binding; PDZ domain binding Biological Process: regulation of exocytosis; vesicle-mediated transport; intra-Golgi vesicle-mediated transport; synaptic transmission; exocytosis; metabolic process; Golgi to plasma membrane protein transport; Golgi vesicle docking; positive regulation of receptor recycling; potassium ion transport; plasma membrane fusion
Research Articles on NSF	**1.** Single and multiple-marker analyses revealed a strong association between cocaine dependence and the NSF gene.
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