

17145

NSF Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 78	Source/Isotype: Rabbit	UniProt ID: #P46459	Entrez-Gene Id: 4905
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		NSF Antibody detects endogenous levels of total NSF protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu524 of human NSF. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Several protein-protein interactions are essential to membrane fusion during endocytosis. Membrane fusion requires interaction among SNARE1 proteins associated with both donor and acceptor membranes (1,2). Following membrane fusion, the α -SNAP cytoplasmic adapter protein binds to the SNARE complex. N-ethylmaleimide-sensitive factor (NSF), a hexameric ATPase, then associates with the α -SNAP/SNARE complex to mediate SNARE disassembly during membrane fusion (3,4). The ATPase activity of NSF induces a conformational change in the α -SNAP/SNARE complex that leads to its dissociation from the membrane, membrane fusion and eventual recycling of the SNARE complex for subsequent membrane fusion (3,4).				
Background References		 Ungermann, C. and Langosch, D. (2005) J Cell Sci 118, 3819-28. Leabu, M. (2006) J Cell Mol Med 10, 423-7. May, A.P. et al. (2001) J Biol Chem 276, 21991-4. Dalal, S. et al. (2004) Mol Biol Cell 15, 637-48. 				
Species Reacti	vity	Species reactivity is det	ermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				

Applications Key

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey

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