#3924 Store at -20C

NSF (D31C7) XP® Rabbit mAb



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Applications: WB, IP, IF-F	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 78	Source/Isotype: Rabbit IgG	UniProt ID: #P46459	Entrez-Gene Id: 4905	
Product Usage Information	Ар	plication			Dilution		
	We	Western Blotting				1:1000	
	Imr	nunoprecipitation			1:100		
	lmr	Immunofluorescence (Frozen)			1:100		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensit	ivity NSF	NSF (D31C7) XP [®] Rabbit mAb detects endogenous levels of total NSF protein.					
Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding residues surrounding Leu524 of human NSF protein.					esponding to		
Background	fusic (1,2) N-et com indu men	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 Refer	2. Le 3. M	 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 Reactivity

Species reactivity is determined by testing in at least one approved 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

WB: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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