

NSF (D31C7) XP® Rabbit mAb



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

| W, IP, IF-F | Sensitivity: Endogenous | MW (kDa): 78 | Source/Isotype: Rabbit IgG | UniProt ID: #P46459 | Entrez-Gene Id: 4905 |
|------------------------------|-----------------------------------|--|---|------------------------|--------------------------------|
| Product Usage Information | | Application | | | Dilution |
| | | Western Blotting | | | 1:1000 |
| | | Immunoprecipitation | | | 1:100 |
| | | Immunofluorescence (F | rozen) | | 1:100 |
| Storage | | | um HEPES (pH 7.5), 150 m ore at –20°C. Do not aliquo | , , , | SA, 50% glycerol and less than |
| Specificity/Sensitivity | | 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 to residues surrounding Leu524 of human NSF protein. | | | |
| 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). | | | |
| | | | embrane, membrane fusi | on and eventual recy | |
| Background Re | ferences | subsequent membrane 1. Ungermann, C. and L 2. Leabu, M. (2006) <i>J Cel</i> | embrane, membrane fusi fusion (3,4). angosch, D. (2005) <i>J Cell S</i> <i>l Mol Med</i> 10, 423-7. <i>J Biol Chem</i> 276, 21991-4. | _ | |
| | | subsequent membrane 1. Ungermann, C. and L 2. Leabu, M. (2006) <i>J Cel</i> 3. May, A.P. et al. (2001) 4. Dalal, S. et al. (2004) <i>J</i> | embrane, membrane fusi fusion (3,4). angosch, D. (2005) <i>J Cell S</i> <i>Il Mol Med</i> 10, 423-7. <i>J Biol Chem</i> 276, 21991-4. <i>Mol Biol Cell</i> 15, 637-48. | ci 118, 3819-28. | cling of the SNARE complex for |
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Applications Key

 $\textbf{W:} \ \textbf{Western Blotting IP:} \ \textbf{Immunoprecipitation IF-F:} \ \textbf{Immunofluorescence (Frozen)}$

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