

## Product datasheet for **AM05269PU-N**

### Alpha SNAP (NAPA) Mouse Monoclonal Antibody [Clone ID: 4E4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	4E4
Applications:	IP, WB
Recommended Dilution:	Western Blot: 0.5-5 ug/ml Immunoprecipitation on native and denatured samples: 2-10 ug/ml.
Reactivity:	Bovine, Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Hybridoma produced by the fusion of splenocytes from mice immunized with recombinant human a-SNAP protein and mouse myeloma cells.
Specificity:	This antibody specifically recognizes a-SNAP as a single band of ~36 kDa on western blot of rat kidney, rat brain and MDBK cells and do not recognize b-SNAP.
Formulation:	20 mM Sodium Phosphate, pH 7.5, 150 mM Sodium Chloride, 50% Glycerol without preservatives. State: Purified State: Liquid purified IgG fraction (> 95% pure).
Concentration:	lot specific
Purification:	Standard chromatographic techniques.
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	NSF attachment protein alpha
Database Link:	<a href="#">Entrez Gene 140673 Rat</a> <a href="#">Entrez Gene 8775 Human</a> <a href="#">P54920</a>



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**Background:**

SNAPs (soluble NSF attachment proteins), acting in concert with SNAREs (SNAP receptors) and the N-ethylmaleimide-sensitive fusion protein (NSF), are required for the fusion of transport vesicles to their target membranes in synaptic transmission, intra-Golgi transport, endosome-to-endosome fusion and transcytotic vesicles-to-plasma membrane transport. Vesicle-to-target membrane docking (initial contact) occurs when the vesicle SNARE binds to its cognate target membrane SNARE. a-SNAP (or bSNAP in brain) then binds to this docking complex and mediates the binding of NSF and thus the formation of a 20 S fusion particle. It is thought that, once NSF is bound, ATP hydrolysis by NSF initiates the fusion process. Whereas a-SNAP is expressed in all mammalian tissues, b-SNAP is expressed only in brain.

**Synonyms:**

NAPA, SNAP-alpha, SNAPA