

## Product datasheet for **AM05268PU-N**

### Alpha SNAP (NAPA) Mouse Monoclonal Antibody [Clone ID: 16D1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	16D1
Applications:	ELISA, WB
Recommended Dilution:	<b>Western Blot:</b> 1/5000. <b>Positive Control:</b> Rat brain.
Reactivity:	Bovine, Chicken, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant Human alpha SNAP.
Specificity:	The antibody recognizes an epitope within the highly conserved domain between amino acids 109 - 193 of SNAP-alpha and SNAP-beta.
Formulation:	20 mM Sodium Phosphate, 150 mM Sodium Chloride, 50% Glycerol, pH 7.5 State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Standard chromatographic techniques.
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) 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 108124 Mouse</a> <a href="#">Entrez Gene 140673 Rat</a> <a href="#">Entrez Gene 8775 Human</a> <a href="#">P54920</a>



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**Background:**

38 kDa 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. alpha-SNAP (or beta-SNAP in brain) then binds to this docking complex and mediates the binding of NSF and thus the formation of a 20S fusion particle. It is thought that, once NSF is bound, ATP hydrolysis by NSF initiates the fusion process.

**Synonyms:**

SNAP-alpha, SNAPA, NAPA

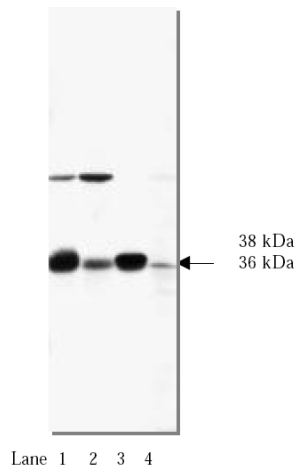
**Product images:**

Figure 1. A typical Western Blot (10% SDS-PAGE) of chicken brain (Lane 1), chicken kidney (Lane 2), rat brain (Lane 3) and rat kidney (Lane 4) probed with clone 16D1 at 0.2 mg/ml.