# Product Datasheet

## SEC6 Antibody (9H5) - BSA Free
## NBP1-97500-0.05mg

Unit Size: 0.05 mg

Store at -20C. Avoid freeze-thaw cycles.

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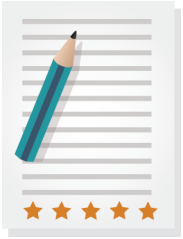
**Publications: 6**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-97500

Updated 2/23/2025 v.20.1





# NBP1-97500-0.05mg

SEC6 Antibody (9H5) - BSA Free

## Product Information

| | |
|---|---|
| **Unit Size** | 0.05 mg |
| **Concentration** | Please see the vial label for concentration. If unlisted please contact technical services. |
| **Storage** | Store at -20C. Avoid freeze-thaw cycles. |
| **Clonality** | Monoclonal |
| **Clone** | 9H5 |
| **Preservative** | 0.09% Sodium Azide |
| **Isotype** | IgG2a |
| **Purity** | Protein G purified |
| **Buffer** | PBS (pH 7.2) and 50% Glycerol |

## Product Description

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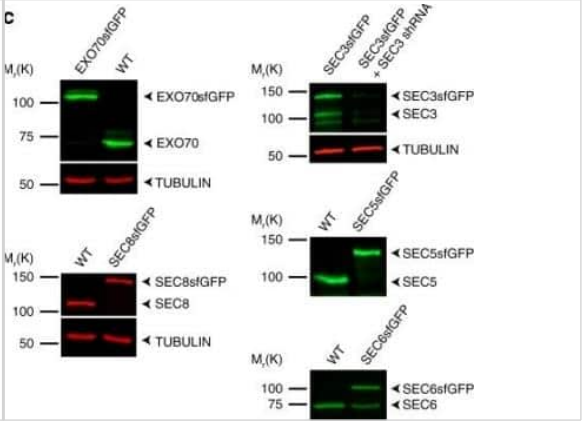
|---|---|
| **Host** | Mouse |
| **Gene ID** | 11336 |
| **Gene Symbol** | EXOC3 |
| **Species** | Human, Mouse, Rat, Porcine, Bovine, Canine, Chicken, Hamster, Monkey, Rabbit, Sheep, Yeast |
| **Reactivity Notes** | Yeast reactivity reported in scientific literature (PMID: 30510181). |
| **Immunogen** | Recombinant rat Sec6. |

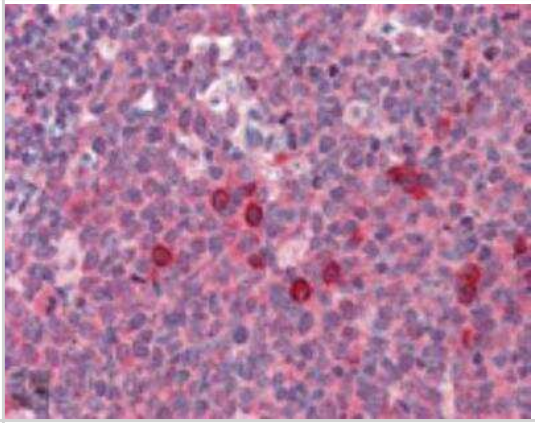
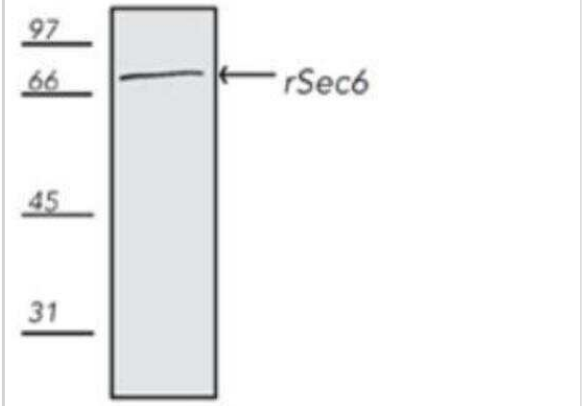
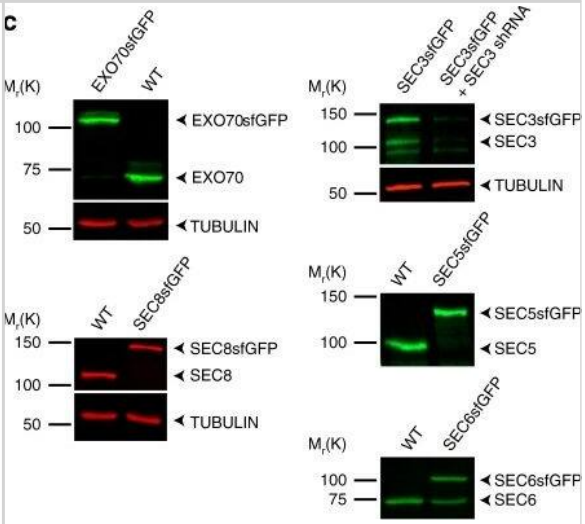
## Product Application Details

| | |
|---|---|
| **Applications** | Western Blot, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin |
| **Recommended Dilutions** | Western Blot 1:250, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunoblotting |
| **Application Notes** | Detects a band of ~87kDa by Western blot. Use in Immunoblotting reported in scientific literature (PMID 28358000). |

## Images

Western Blot: SEC6 Antibody (9H5) [NBP1-97500] - Establishment and validation of tagged exocyst subunit cell lines. Western blots with subunit specific antibodies show successful incorporation of sfGFP in both alleles (EXO70, SEC5, and SEC8), or in one allele (SEC3 and SEC6). A shRNA specific to SEC3 was used to confirm the identity of multiple bands in the blot. Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/s41467-018-07467-5) licensed under a CC-BY license.



| | |
|---|---|
| Immunohistochemistry-Paraffin: SEC6 Antibody (9H5) [NBP1-97500] - Analysis of human tonsil tissue stained with rSec6, mAb (9H5) at 10ug/ml. |  |
| Western Blot: SEC6 Antibody (9H5) [NBP1-97500] - Analysis of pig ESK-4 cell lysate. |   |
| Western Blot: SEC6 Antibody (9H5) [NBP1-97500] - Establishment & validation of tagged exocyst subunit cell lines. a Schematic showing a region of subunit gene targeted by sgRNA & tags to be inserted C-terminally, in-frame with the coding region. b Strategy to isolate CRISPR/Cas9-mediated sfGFP-tagged clones of exocyst subunits in NMuMG cells. c Western blots with subunit specific antibodies show successful incorporation of sfGFP in both alleles (EXO70, SEC5, & SEC8), or in one allele (SEC3 & SEC6). A shRNA specific to SEC3 was used to confirm the identity of multiple bands in the blot. d Confocal images of live wild-type NMuMG cells & endogenously tagged SEC3-GFP, SEC5-GFP, SEC6-GFP, SEC8-GFP, & EXO70-GFP cell lines. Scale bar = 10 µm. e Protein–protein interaction heat map for endogenous SEC3-GFP, SEC5-GFP, & EXO70-GFP pulldown using GFP-Trap nanobodies & MS. Yellow indicates baits, blue the protein identified with high confidence, & gray denotes preys that were not identified. The experiments were repeated three times for EXO70-GFP & twice for SEC3-GFP & SEC5-GFP. All experiments were also partially confirmed by IP–WB in at least three independent experiments, with similar results. f Western blot analysis to assess the relative abundance of exocyst subunits fused to sfGFP, using anti-GFP antibodies (SEC3 & SEC6 quantifications corrected for heterozygosity). GAPDH was the loading control. Y axis shows the ratio of GFP/GAPDH. Quantification shows pooled data from three experiments Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/30510181), licensed under a CC-BY license. Not internally tested by Novus Biologicals. |   |

## Publications


Ahmed SM, Nishida-Fukuda H Exocyst dynamics during vesicle tethering and fusion Nat Commun. 2018-12-02 [PMID: 30510181] (WB, Yeast)

Ahmed S, Nishida-Fukuda H, Li Y et al. Exocyst Dynamics During Vesicle Tethering and Fusion. bioRxiv 2018-06-22 [PMID: 30644403] (IB)

Ahmed SM, Macara IG. The Par3 polarity protein is an exocyst receptor essential for mammary cell survival. Nat Commun. 2017-03-30 [PMID: 28358000] (IB, Human)

M Knepper et al. Large-scale quantitative LC-MS/MS analysis of detergent-resistant membrane proteins from rat renal collecting duct. Am. J. Physiol.Cell Physiol. 295, C661 . 2008-01-01 [PMID: 18596208] (WB, Rat)

E Rodriguez-Boulan et al. Three-dimensional analysis of post-Golgi carrier exocytosis in epithelial cells:; . Nat. Cell Biol. 5, 126. 2003-01-01 [PMID: 12545172] (ICC/IF, Canine)

PJ Robinson et al. The brain exocyst complex interacts with RalA in a GTP-dependent manner: identification of a novel mammalian Sec3 gene and a second Sec15 gene. J. Biol. Chem. 276, 29792. 2001-01-01 [PMID: 11406615] (WB, Rat)

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## Products Related to NBP1-97500-0.05mg

| | |
|---|---|
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB720-B | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-96778 | Mouse IgG2a Isotype Control (M2A) |
| H00011336-P01-10ug | Recombinant Human SEC6 GST (N-Term) Protein |

**Limitations**
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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