

Product Datasheet

SEC24A Antibody (4D9) - Azide and BSA Free H00010802-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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H00010802-M01

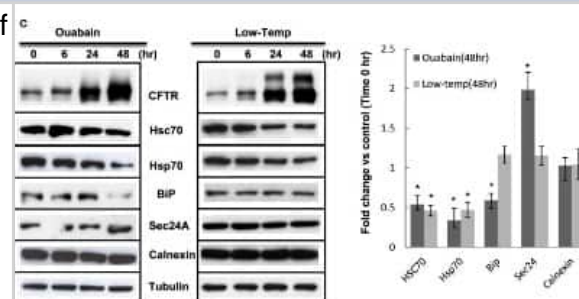
SEC24A Antibody (4D9) - Azide and BSA Free

| Product Information | |
|-----------------------------|---|
| Unit Size | 0.1 mg |
| Concentration | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| Storage | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles. |
| Clonality | Monoclonal |
| Clone | 4D9 |
| Preservative | No Preservative |
| Isotype | IgG2a Kappa |
| Purity | IgG purified |
| Buffer | In 1x PBS, pH 7.4 |
| Product Description | |
| Host | Mouse |
| Gene ID | 10802 |
| Gene Symbol | SEC24A |
| Species | Human |
| Specificity/Sensitivity | This product is specific for Human SEC24A monoclonal antibody (M01), clone 4D9 [Gene ID: 10802]. |
| Immunogen | SEC24A (XP_094581.5, 301 a.a. ~ 390 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. PLTSSYRDVPQPLFNSAVNQEGITSNTNNGSMVVHSSYDEIEGGGLLATPQLT NKNPKMSRSVGYSYPSLPPGYQNTTPPGATGVPPSSL |
| Notes | This product is produced by and distributed for Abnova, a company based in Taiwan. |
| Product Application Details | |
| Applications | Western Blot, ELISA, Sandwich ELISA |
| Recommended Dilutions | Western Blot, ELISA, Sandwich ELISA |
| Application Notes | Mouse monoclonal antibody raised against a partial recombinant SEC24A. |

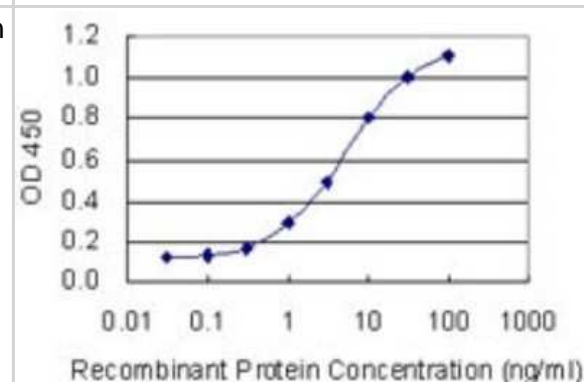


Images

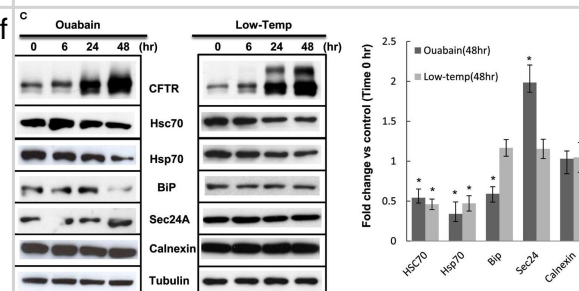
Western Blot: SEC24A Antibody (4D9) [H00010802-M01] - The effects of ouabain and low temperature on ER-related chaperones. CFBE/F508del-CFTR cells were treated with 0.1 μ M ouabain or 29°C (Low-Temp.) for 6, 24, or 48 h, then the cell lysates were analyzed by immunoblotting using the individual antibodies. The bar graph shows quantification of the band intensities for blots expressed as fold change vs. Time 0 h control. Values in the experiments described are presented as means \pm SD ($n = 3$). Means were tested for statistical significance using a Student's t-test ($*P < 0.05$). Image collected and cropped by CiteAb from the following publication (<https://journal.frontiersin.org/article/10.3389/fphar.2012.00176/abstract>), licensed under a CC-BY license.



Sandwich ELISA: SEC24A Antibody (4D9) [H00010802-M01] - Detection limit for recombinant GST tagged SEC24A is 0.1 ng/ml as a capture antibody.



Western Blot: SEC24A Antibody (4D9) [H00010802-M01] - The effects of ouabain & low temperature on ER-related chaperones. (A) Left panel: Venn diagram of the intersection between ouabain & low temperature 24 h signatures according to a $FDR \leq 0.05$. The numbers indicate distinct genes. The probability $*P = 0.0001$ was calculated using a hypergeometric random variable. Right panel: Gene Ontology (GO) cellular processes pie chart of 3530 genes in common between ouabain & low temperature 24 h treatments. (B) The total RNA previously extracted for the microarray analysis was tested by real-time PCR using the individual primers for the gene expressions of HSPA8, HSPA1L, HSPA5, SEC24A, & CANX. Data are presented by the fold change of gene expression vs. DMSO control with mean \pm SEM of $n = 3$ ($*P < 0.05$) (C) CFBE/F508del-CFTR cells were treated with 0.1 μ M ouabain or 29°C (Low-Temp.) for 6, 24, or 48 h, then the cell lysates were analyzed by immunoblotting using the individual antibodies. The bar graph shows quantification of the band intensities for blots expressed as fold change vs. Time 0 h control. Values in the experiments described are presented as means \pm SD ($n = 3$). Means were tested for statistical significance using a Student's t-test ($*P < 0.05$). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/23060796/>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Deng S, Shen Y, Gu H et al. The role of the C-terminal domain of PCSK9 and SEC24 isoforms in PCSK9 secretion. *Biochim Biophys Acta Mol Cell Biol Lipids*. 2020-02-11 [PMID: 32058034]

Zhang D, Ciciriello F, Anjos SM et al. Ouabain Mimics Low Temperature Rescue of F508del-CFTR in Cystic Fibrosis Epithelial Cells *Front Pharmacol* 2012-01-01 [PMID: 23060796] (WB, Human)



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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| | |
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| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB720-B | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-96981-0.5mg | Mouse IgG2a Kappa Isotype Control (M2AK) |
| NBP1-85867PEP | SEC24A Recombinant Protein Antigen |

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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