

# Product Datasheet

## MVP Antibody (2H3-1A6) - Azide and BSA Free H00009961-M01

Unit Size: 0.1 mg

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

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**H00009961-M01**

MVP Antibody (2H3-1A6) - 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	2H3-1A6
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4

Product Description	
Description	Novus Biologicals Mouse MVP Antibody (2H3-1A6) - Azide and BSA Free (H00009961-M01) is a monoclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-MVP Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	9961
Gene Symbol	MVP
Species	Human
Specificity/Sensitivity	MVP - major vault protein
Immunogen	MVP (AAH15623, 1 a.a. ~ 893 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MATEEFIIRIPPYHYIHVLDQNSNVSVEVGPKTYIRQDNERNVLFAPMRMVTVP RHYCTVANPVSQDAQGLVLFDTGQVRLRHADLEIRLAQDPFPLYPGEVLEKDI TPLQVVLPTALHLKALLDFEDKDGKVVAGDEWLFEGPGTYIPRKEVEVVEII QATIIRQNQALRLRARKECWDRDGKERVGTGEEWLVTTVGAYLPAVFEEVLDLV DAVILTEKTALHLRARRNFRDFRGVSRRTGEEWLVTVQDTEAHVPDVHEEVLG VVPITTLGPHNYCVILDPVGPDPGKNQLGQKRVVKGEKSFFLQPGEQLEQGIQD VYVLSEQQGLLLRALQPLEEGEDEEKVSHQAGDHWLIRGPLEYVPSAKVEVVE ERQAIPLDENEGIVQDVKTGKVRVIGSTYMLTQDEVLWEKELPPGVEELLNK GQDPLADRGEKDTAKSLQPLAPRNKTRVVSYPHNAAVQVYDYREKRARVV FGPELVSLGPEEQFTVLSLSAGRPKRPHARRALCLLLGPDFFTDVITETADHAR LQLQLAYNWHFEVNDKDPQETAKLFSVPDFVGDAKAIASRVRGAVASVTFD DFHKNSARIIRTA VFGFETSEAKGPDGMALPRPRDQAVFPQNGLVVSSVDVQS VEPVDQRTRDALQRSVQLAIEITTNSQEAQAAKHEAQRLEQEARGRLERQKILDQ SEAEKARKELLELEALSMAVESTGTAKAEAESRAEAARIEGEGSVLQAKLKAQA LAIETEAELQRVQKVRELELVYARAQLELEVSKAQQLAEVEVKKFKQMTEAIGP STIRDLAVAGPEMQVKLLQSLGLKSTLITDGSTPINLFNTAFGLLGMPGEGQPL GRRVASGPSPGEGISPQSAQAPQAPGDNHVVPVLR
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

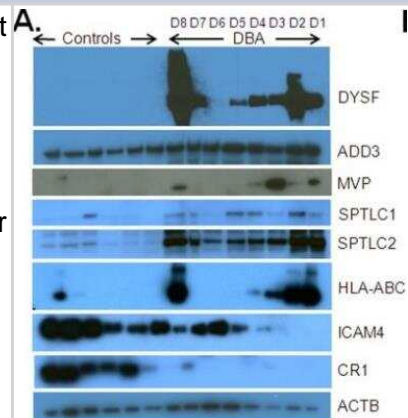
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry



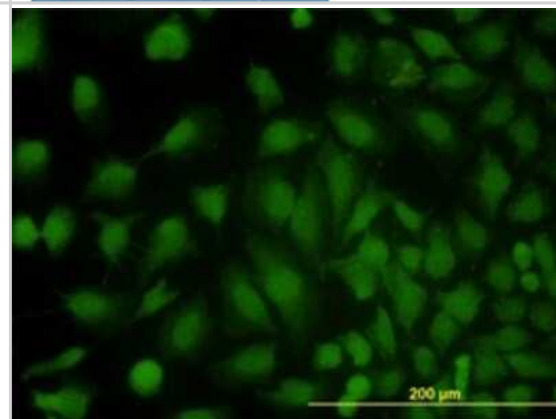
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin
<b>Application Notes</b>	Antibody reactive against cell lysate and recombinant protein for Western Blot. Has also been used for immunofluorescence, immunohistochemistry (paraffin), and ELISA.

## Images

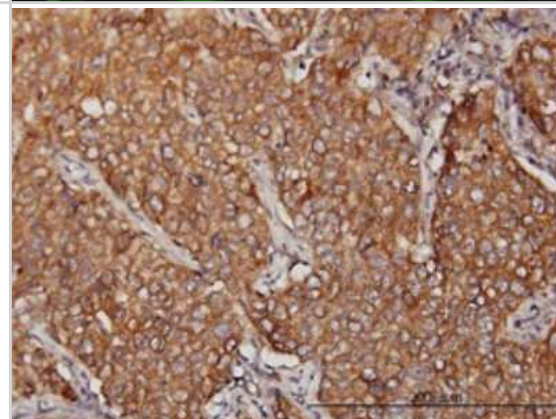
**Western Blot: MVP Antibody (2H3-1A6) [H00009961-M01]** - Western blot of several proteins that were increased or decreased in DBA patients including dysferlin (DYSF), gamma-adducin (ADD3), major vault protein (MVP), serine palmitoyltransferase 1 and 2 (SPTLC1 and SPTLC2), HLA-ABC, and intercellular adhesion molecule 4 (ICAM4) with b-actin (ACTB) used as a loading control. Six individual control samples that were included in the pooled controls for proteomic analysis were used for comparison to individual DBA patient samples. Image collected and cropped by CiteAb from the following publication ([dx.plos.org/10.1371/journal.pone.0085504](https://doi.org/10.1371/journal.pone.0085504)), licensed under a CC-BY license.



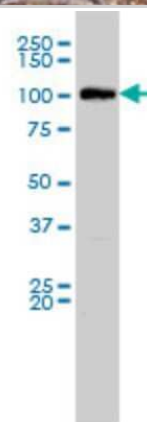
**Immunocytochemistry/Immunofluorescence: MVP Antibody (2H3-1A6) [H00009961-M01]** - Analysis of monoclonal antibody to MVP on HeLa cell. Antibody concentration 10 ug/ml.



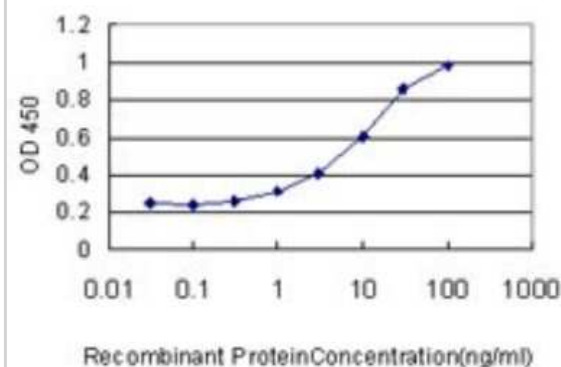
**Immunohistochemistry-Paraffin: MVP Antibody (2H3-1A6) [H00009961-M01]** - Analysis of monoclonal antibody to MVP on formalin-fixed paraffin-embedded human lung, adenosquamous cell carcinoma. Antibody concentration 3 ug/ml.



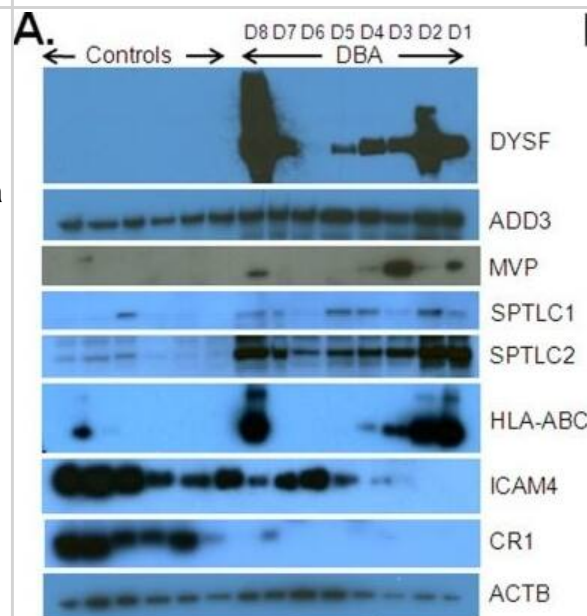
**Western Blot: MVP Antibody (2H3-1A6) [H00009961-M01]** - MVP monoclonal antibody (M01), clone 2H3-1A6 Analysis of MVP expression in Hela S3 NE.



ELISA: MVP Antibody (2H3-1A6) [H00009961-M01] - Detection limit for recombinant GST tagged MVP is approximately 1ng/ml as a capture antibody.



Western Blot: MVP Antibody (2H3-1A6) [H00009961-M01] - Immunoblot validation & characterization of dysferlin. A) Western blot of several proteins that were increased or decreased in DBA patients including dysferlin (DYSF), gamma-adducin (ADD3), major vault protein (MVP), serine palmitoyltransferase 1 & 2 (SPTLC1 & SPTLC2), HLA-ABC, & intercellular adhesion molecule 4 (ICAM4) with  $\beta$ -actin (ACTB) used as a loading control. Six individual control samples that were included in the pooled controls for proteomic analysis were used for comparison to individual DBA patient samples. B) Confocal images of intact RBCs from DBA patient D1 & healthy control C2 showing localization of dysferlin (green) at the membrane where spectrin (red) is localized. Dysferlin fluorescence signal in the membrane of DBA RBCs is present in punctuate patterns & is evident above the autofluorescent background seen in the cytoplasm as highlighted in the zoomed images on the right panel. C) Western blot showing the enrichment of dysferlin in the RBC ghosts (WG) & the inside-out vesicles (IOV) but not in the RBC membrane cytoskeletal extract (CE) of DBA patients D1 & D2. D) Distribution of dysferlin spectral counts versus gel slice number for DBA samples D1 & D2. Higher abundance of dysferlin in D1 with high molecular weight dysferlin crosslinks & low mass protein fragments correlate with immunoblots shown in panel A. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/24454878>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Rahimi AS, Wilson DD, Saylor DK et al. p16, Cyclin D1, and HIF-1 $\alpha$  Predict Outcomes of Patients with Oropharyngeal Squamous Cell Carcinoma Treated with Definitive Intensity-Modulated Radiation Therapy. *Int J Otolaryngol.* 2012-01-01 [PMID: 22888357] (IF/IHC)

Pesciotta EN, Sriswasdi S, Tang HY et al. Dysferlin and other non-red cell proteins accumulate in the red cell membrane of Diamond-Blackfan Anemia patients. *PLoS ONE* 2014-01-23 [PMID: 24454878] (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](http://www.novusbio.com)  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to H00009961-M01**

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)
H00009961-P01-10ug	Recombinant Human MVP 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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