

Mouse V5-TAG Monoclonal Antibody | anti-V5-TAG antibody

MOUSE ANTI V5-TAG:HRP

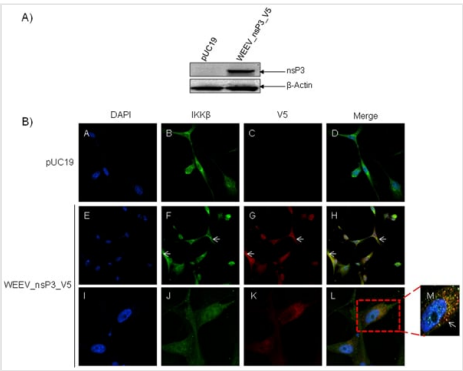
CATALOG # AAA12081	HOST Mouse	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

V5-TAG; Monoclonal Antibody; MOUSE ANTI V5-TAG:HRP; anti-V5-TAG antibody

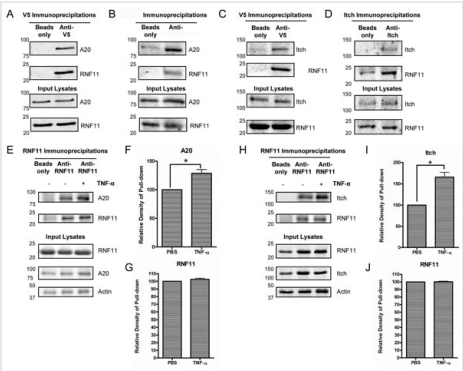
PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	SV5-Pk1
Specificity	Mouse anti V5-Tag, clone SV5-Pk1 recognizes the sequence, IPNPLLGLD, present on the P/V proteins of the paramyxovirus, SV5. Clone SV5-Pk1 is used to detect recombinant proteins, some of which include transmembrane and secreted proteins, that have labeled with tags containing this sequence.
Form/Format	HRP Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	222
Applicable Applications for anti-V5-TAG antibody	ELISA, WB (Western Blot)
Application Notes	Western Blotting: 1/1000
Perservative Stabilisers	0.0095% MIT
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Target Species	Viral
Immunogen	Paramyxovirus Simian-Virus 5 (SV5)
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the SP2/0 Ag14 myeloma cell line
Preparation and Storage	It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.



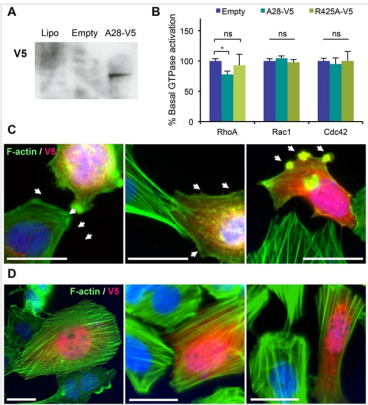
Application Data

Published customer image: Mouse anti V5 tag antibody, clone SV5-Pk1 used for the detection of V5 tagged WEEV_nsP3 protein by western blotting and immunofluorescence image caption: WEEV nsP3 interaction with host IKKbeta. A) U87MGs were transfected in a 6-well plate with 5 ug of pUC19 and WEEV_nsP3_HA for 24 hours. Cell lysates were resolved using SDS-PAGE and subsequently immunoblotted with V5 antibody and beta-actin served as a loading control. B) U87MGs were transfected with WEEV_nsP3_V5; cells were fixed after 24 hours and stained with antibodies against the endogenous IKKbeta and the V5 tag. Cells were incubated with appropriate secondary Alexa Fluor antibodies and the nuclei stained with DAPI. Co-localization of IKKbeta with WEEV_nsP3_V5 (yellow) was observed as shown by the arrows. B) Panels E-H serve as an example of transfected cells in a given field of view that show co-localization of IKKbeta and WEEV_nsP3_V5 24 hours post transfection. Panels I-L represent magnified images of other cells showing co-localization of IKKbeta and WEEV_nsP3_V5. Panel M is a magnified image of panel L. The co-localization was confirmed by Z-stack analysis. Co-localization was calculated to be approximately in 61% of cells (163 cells were counted of which 44% demonstrated expression of nsP3. Of those cells that expressed nsP3, 61% showed co-localization of both proteins). Images were taken using Nikon Eclipse TE2000-U at 60x magnification and are representative of 2 independent experiments. From: Amaya M, Voss K, Sampey G, Senina S, de la Fuente C, et al. (2014) The Role of IKKbeta in Venezuelan Equine Encephalitis Virus Infection. PLoS ONE 9(2): e86745.



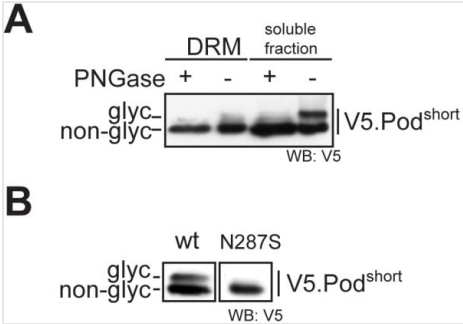
Application Data

Published customer image: Mouse anti V5 Tag antibody, clone SV5-Pk1 used for immunoprecipitation of V5 tagged RNF11 protein image caption: Dynamic associations of RNF11 with both A20 and Itch in primary neurons. N2A cells transduced with V5-RNF11 lentivirus (N2A V5-RNF11) and transfected with DYKDDDDK-A20 were harvested for immunoprecipitation (IP) with V5 antibody (A) or harvested for IP with DYKDDDDK antibody (B). Proteins were resolved by SDS-PAGE and immunoblotted with anti-A20 and RNF11. In parallel, pull-down assays with V5 antibody (C) or with Itch antibody (D) from N2A V5-RNF11 cell lysates were resolved by SDS-PAGE. Immunoprecipitates and lysates were immunoblotted with anti-Itch and RNF11. (E) and (H) Murine primary cortical neurons were stimulated with 10⁷ng/ml TNF-α for 0 or 30 minutes and harvested for IP with RNF11 antibody. Control IP experiments were performed with antibody omitted. Proteins were resolved by SDS-PAGE and immunoblotted with anti-A20, Itch, RNF11 and actin. (F), (G), (I) and (J) ImageJ software was used to quantify the densitometry of the immunoprecipitated bands relative to the 0-minutes time point. Each input sample's immunoreactivity was used as a loading control. All IPs are representative of at least three independent experiments. *P?



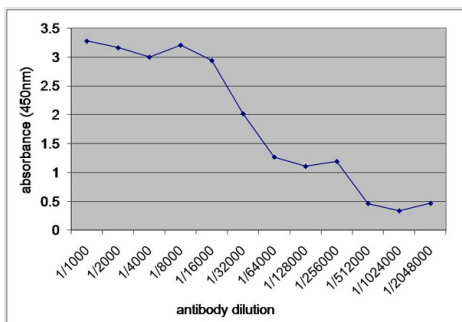
Application Data

Published customer image: Mouse anti V5 tag antibody, clone SV5-Pk1 used for the detection of V5 tagged Rho GTPase-activating protein 28 protein by western blotting and immunofluorescence image caption: Arhgap28-V5 inhibits RhoA activation and stress fiber formation in SaOS-2 cells. SaOS-2 cells were transfected with empty vector or Arhgap28-V5. A. The expression of Arhgap28-V5 was confirmed by western blotting using an antibody to V5. B. Effect of Arhgap28-V5 expression on the basal activity of RhoA (n = 5), Rac1 (n = 3) and Cdc42 (n = 3). Bars show SEM. * indicates significant difference found, p



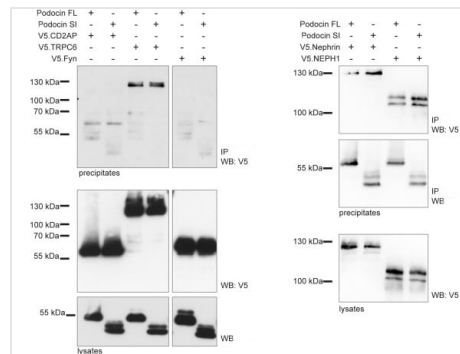
Application Data

Published customer image: Mouse anti V5 tag antibody, clone SV5-Pk1 used for detection of V5 tagged podocin protein by western blotting image caption: The podocin short isoform is N-glycosylated. A) PNGase-F treatment removes the double band from the short isoform in DRM fraction 7. Lysates from Figure 3 were subjected to treatment with PNGase-F and immunoblotted and detected with anti-V5 antibody. B) N to S mutation of the N-glycosylation consensus motif completely abrogates the formation of a double band. The asparagine at position 287 corresponds to amino acid 355 in the full-length protein. HEK293T cells were transfected with V5-tagged Podocin (short isoform or short isoform N287S, respectively) and lysates were immunoblotted and detected with anti-V5 antibody. From: Völkl LA, Schurek EM, Rinschen MM, Tax J, Schutte BA, Lamkemeyer T, Ungrie D, Schermer B, Benzing T, Hähne M. Characterization of a short isoform of the kidney protein podocin in human kidney. BMC Nephrol. 2013 May 6;14:102.



Application Data

V5 tagged protein detected with Mouse anti V5-Tag



Application Data

Published customer image: Mouse anti V5 tag antibody, clone SV5-Pk1 used for detection of V5 tagged podocin protein by western blotting. The podocin short isoform interacts with known podocyte proteins. CD2AP, TRPC6, nephrin and NEPH1 co-precipitate with both podocin isoforms (FL, full length (canonical isoform); SI, short isoform). DYKDDDDK- and V5-tagged proteins were expressed in HEK293T cells and precipitated with anti-DYKDDDDK antibody as indicated. Western blot analysis was performed with a V5 specific antibody. Expression levels of DYKDDDDK.podocin constructs in the lysates are shown below. From: Völkl LA, Schurek EM, Rinschen MM, Tax J, Schutte BA, Lamkemeyer T, Unglue D, Schermer B, Benzing T, Hähne M. Characterization of a short isoform of the kidney protein podocin in human kidney. BMC Nephrol. 2013 May 6;14:102.

NCBI AND UNIPROT INFORMATION

NCBI GI #	55775699
NCBI GeneID	3160800
NCBI Accession #	YP_138513.1
NCBI GenBank Nucleotide #	NC_006430.1
NCBI Official Full Name	V protein
NCBI Official Symbol	V/P
NCBI Protein Information	phosphoprotein; V protein

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/v5-tag-antibody-clone-sv5-pk1-western-blot-elisa/12081>