abcam

ab27671

Anti-V5 tag antibody [SV5-Pk1]

Anti-V5 tag antibody [SV5-Pk1] (ab27671) is a mouse monoclonal antibody detecting V5 tag in **Western Blot, Flow Cytometry, IP, IHC-Fr, ELISA**.

- Over 150 publications
- Trusted since 2005

Lab Essentials

Key facts

Isotype	IgG2a
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.09% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Virus preparation containing V5 tag protein. The exact immunogen used to generate this antibody is proprietary information.
Clone number	SV5-Pk1
Purification technique	Affinity purification Protein A
Epitope	ab27671 recognises a small epitope, termed Pk, present on the P/V proteins of the paramyxovirus, SV5.
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	This antibody was purified from tissue culture supernatant by affinity chromatography.

Reactivity data

IP

Expected

Species	Transfected cell lysate - Simian virus 5 (strain W3) (SV5)
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt

Expected

Species	Transfected cell lysate - Simian virus 5 (strain W3) (SV5)
Dilution info	Use at an assay dependent concentration.
Notes	-

ELISA

Expected

Species	Transfected cell lysate - Simian virus 5 (strain W3) (SV5)
Dilution info	1/1000 - 1/5000
Notes	-

WB

Tested

Species	Transfected cell lysate - Simian virus 5 (strain W3) (SV5)
Dilution info	1/1000 - 1/5000
Notes	-

RIA

Expected

Species	Transfected cell lysate - Simian virus 5 (strain W3) (SV5)
Dilution info	Use at an assay dependent concentration.

Notes	-

IHC-Fr

Expected

Species	Transfected cell lysate - Simian virus 5 (strain W3) (SV5)
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information V5 tag

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot

Notes

Anti-V5 tag antibody [SV5-Pk1] (ab27671) is a mouse monoclonal antibody and is validated for use in ELISA, Flow Cyt, IHC-Fr, IP, RIA, WB in human, mouse samples.

Anti-V5 tag antibody [SV5-Pk1] (ab27671) has been cited over 153 times in peer reviewed journals and is trusted by the scientific community.

Abcam's high quality validation processes ensure Anti-V5 tag antibody [SV5-Pk1] (ab27671) has high sensitivity and specificity.

Anti-V5 tag antibody [SV5-Pk1] (ab27671) has 11 independent reviews from customers.

Anti-V5 tag antibody [SV5-Pk1] (ab27671) specifically detects V5 tag (UniProt ID: P11207; Molecular weight: 24kDa)

and is sold in 100 µg selling sizes.

Antibody clone SV5-Pk1 is also available pre-conjugated to Biotin for your convenience (ab27672).

ab27671 has been used to detect recombinant proteins, some of which include transmembrane and secreted proteins, which have been tagged with the V5 epitope.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The V5 tag is an epitope tag derived from the P and V fusion proteins of the paramyxovirus. It typically measures around 14 amino acids in length and is often used in molecular biology for tagging and protein expression studies. In terms of mechanical function the V5 tag facilitates the detection characterization and purification of recombinant proteins. Scientists commonly use it in various hosts such as bacteria yeast and mammalian cells due to its convenient integration into larger protein complexes. Unlike native proteins it serves as a non-disruptive label for identifying proteins without affecting their functionality.
Biological function summary	Researchers employ the V5 tag to decipher protein localization expression and role within cellular environments. It allows easy tracking in situ by using antibodies that target the V5 epitope such as the anti-V5 antibody. The V5 tag proves effective in dual-tagging systems useful in elucidating protein interactions and complex formations for instance when combined with other tags like biotin tag or APC tag. This assists in isolating and identifying components of complex cellular machinery.
Pathways	The tag is frequently utilized in studies exploring functional pathways of various proteins across metabolic and signaling pathways. It aids in examining the relationship between proteins within signaling cascades by tagging proteins that interact with others such as those in the PK tag-related signaling pathways. Researchers often track proteins across intricate networks to understand cellular processes intricately using V5-tagged proteins as indicators or reporters.
Associated diseases and disorders	Scientists harness the V5 tag to investigate the expression and interactions of proteins associated with certain conditions such as cancer and neurodegenerative diseases. Through its integration scientists aim to uncover alterations in protein interactions or localizations that contribute to disease progression. For example they may tag proteins linked to cancer pathways observing how disruptions in proteins related to anti-V5 targets could provide insights into tumor biology or pathogenesis.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

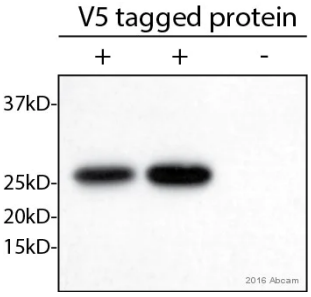
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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3 product images



Western blot - Anti-V5 tag antibody [SV5-Pk1] (ab27671)

Cells were transfected with a V5-tagged HSPB8 (MW:~25kD) plasmid, which expressed a V5-tagged protein with molecular weight of approximately 28kD.
All lanes:
Western blot - Anti-V5 tag antibody [SV5-Pk1] (ab27671) at 1/1000 dilution

Lanes 1 - 2:
Transfected NIH/3T3 cell lysate

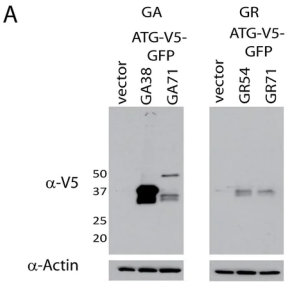
Lane 3:
Not transfected NIH/3T3 cell lysate

Secondary

All lanes:
HRP-conjugated rabbit polyclonal Anti-mouse

Developed using the ECL technique.

Exposure time: 1s



Western blot - Anti-V5 tag antibody [SV5-Pk1] (ab27671)

V5 tag Western blot staining using mouse Anti-V5 tag antibody

Characterization of new C9orf72 dipeptide repeat antibodies.
Rabbit polyclonal antibodies were generated against the sense strand-derived DPRs GA and GR. **(A)** Western blot of lysates from COS-7 (African green monkey kidney fibroblast-like cell line) cells transfected with the indicated vectors. Blots were serially probed with the indicated DPR antibody, then ab27671 and then actin as a loading control.

Flores et al PLoS One. 2016 Oct 24;11(10):e0165084. doi: 10.1371/journal.pone.0165084. eCollection 2016. Fig S2. Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

All lanes:
Western blot - Anti-V5 tag antibody [SV5-Pk1] (ab27671)

b

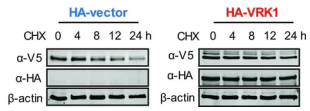


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Western blot - Anti-V5 tag antibody [SV5-Pk1] (ab27671)

V5 tag Western blot staining using mouse Anti-V5 tag antibody

V5 tag western blotting using Anti-V5 tag antibody [SV5-Pk1] ab27671. Publication image and figure legend from Moura, D., Campillo-Marcos, I., et al., 2018 ,Cell Mol Life Sci Pubmed 29340707.

VRK1 contributes to the stability of AURKB. a 293T cells were transfected first with SiControl or SiVRK1-02 and 24 h later transfected using PEI with AURKB (pcDNA3.1/nV5-DEST-AURKB) in combination with V5 and with active HA-ubiquitin (pSSK-HA--Ubiquitin). The immunoprecipitated proteins were determined in immunoblots. b The 293T cells were transfected with plasmids expressing HA-VRK1 (pCEFL-HA-VRK1) and V5-tagged AURKB. 72 h after transfection and overexpression, the 293T cells were treated with 50 μg/mL of cycloheximide and aliquots were taken at different time points during 24 h for protein level determinations. The two experiments were performed three times and the error bars represent the standard deviations. The dashed line represents the 50% level

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