

Product Datasheet

ZFYVE21 Antibody - Azide and BSA Free H00079038-B01P

Unit Size: 0.05 mg

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

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H00079038-B01P

ZFYVE21 Antibody - Azide and BSA Free

Product Information	
Unit Size	0.05 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	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Protein A purified
Buffer	PBS (pH 7.4)

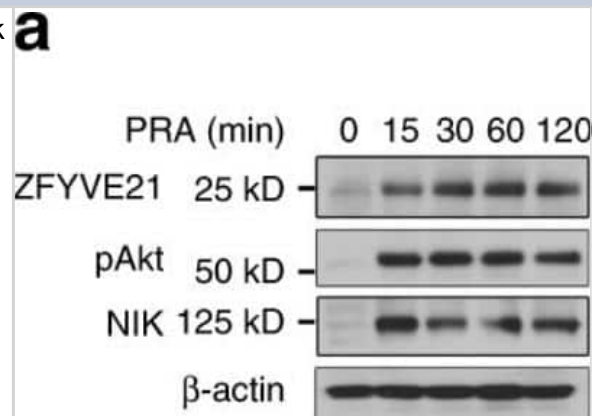
Product Description	
Description	Novus Biologicals Mouse ZFYVE21 Antibody - Azide and BSA Free (H00079038-B01P) is a polyclonal antibody validated for use in WB. Anti-ZFYVE21 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	79038
Gene Symbol	ZFYVE21
Species	Human
Specificity/Sensitivity	ZFYVE21 - zinc finger, FYVE domain containing 21,
Immunogen	ZFYVE21 (NP_076976, 1 a.a. - 234 a.a.) full-length human protein. MSSEVSARRDAKKLVRSPSGLRMVPEHRAFGSPFGLLEEPQWVPDKECRRCM QCDAKFDLFLTRKHHCRRCGKCFCDRCCSQKVPPLRRMCFVDPVRQCAECALV SLKEAEFYDKQLKVLLSGATFLVTFGNSEKPEMTTCRLSNNQRYLFLDGDSHY EIEIVHISTVQILTEGFPPGGGNARATGMFLQYTVPGTEGVTQLKLTVVEDVTVG RRQAVAWLVAMHKAALKLLYESRDQ
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details	
Applications	Western Blot
Recommended Dilutions	Western Blot 1:500
Application Notes	Antibody reactive against Recombinant Protein with GST tag on ELISA and Western Blot and also on transfected lysate in western blot. GST tag alone is used as a negative control.

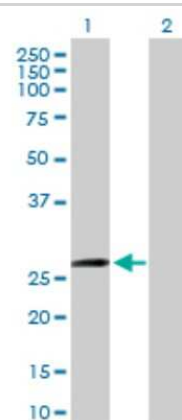


Images

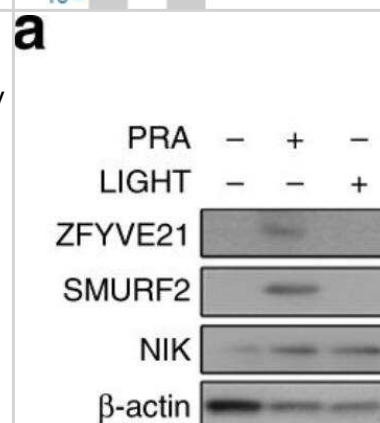
Western Blot: ZFYVE21 Antibody [H00079038-B01P] - Membrane attack complex-induced and endosome-dependent stabilization of ZFYVE21. Human umbilical vein endothelial cells (HUVECs) were treated with panel reactive antibody (PRA) sera (25% v/v in gelatin veronal buffer) (a). HUVECs were treated with MG132 (25uM). Image collected and cropped by CiteAb from the following publication (nature.com/articles/s41467-019-10041-2), licensed under a CC-BY license.



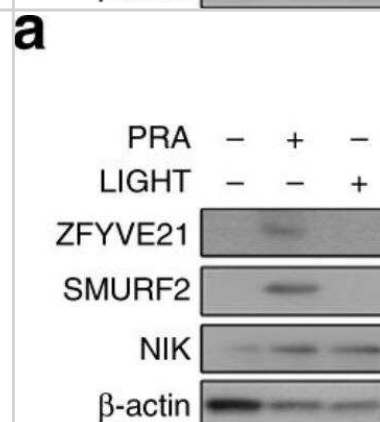
Western Blot: ZFYVE21 Antibody [H00079038-B01P] - Analysis of ZFYVE21 expression in transfected 293T cell line by ZFYVE21 polyclonal antibody. Lane 1: ZFYVE21 transfected lysate(25.74 KDa). Lane 2: Non-transfected lysate.



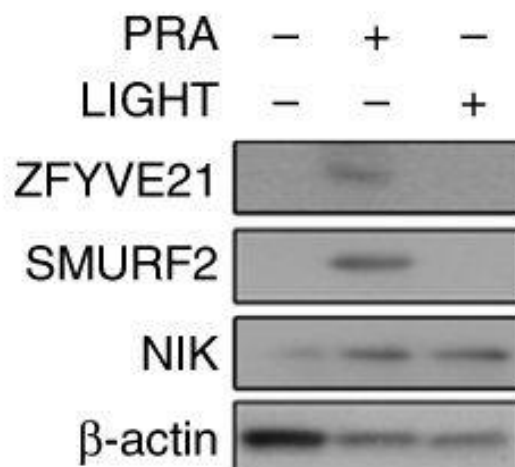
Western Blot: ZFYVE21 Antibody [H00079038-B01P] - Correlations of ZFYVE21 and complement in patient tissues. Western blots of human umbilical vein endothelial cells treated with either panel reactive antibody (30min, 25% v/v in gelatin veronal buffer) or LIGHT (12h, 50ng/mL in EGM2 media, a). Kidney biopsies from renal transplant patients (n=12) were stained as indicated. Image collected and cropped by CiteAb from the following publication (nature.com/articles/s41467-019-10041-2), licensed under a CC-BY license.



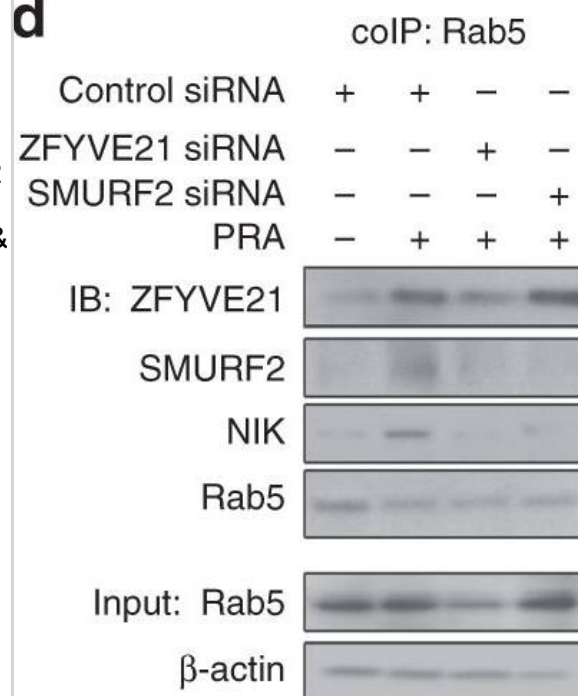
Western Blot: ZFYVE21 Antibody [H00079038-B01P] - Recombinant FLAG-tagged ZFYVE21 (1ug) and/or recombinant SMURF2 (1ug) protein was incubated for 30min at room temperature and analyzed by western blot. Image collected and cropped by CiteAb from the following publication (nature.com/articles/s41467-019-10041-2), licensed under a CC-BY license.



Western Blot: ZFYVE21 Antibody [H00079038-B01P] - Correlations of ZFYVE21 & complement in patient tissues. Western blots of human umbilical vein endothelial cells treated with either panel reactive antibody (30 min, 25% v/v in gelatin veronal buffer) or LIGHT (12 h, 50 ng/mL in EGM2 media, a). Kidney biopsies from renal transplant patients (n = 12) were stained as indicated (b). Synovial biopsies from osteoarthritis (n = 11), low-titer rheumatoid factor antibody rheumatoid arthritis (RF RA; n = 8), & high-titer RF RA (n = 8) were stained as indicated (c–e) & spatial correlations between ZFYVE21 or nuclear factor-inducing kinase (NIK) with endothelial cells (Ulex, f) & membrane attack complex (polyC9, g) were assessed using the computer software (scale bar: 200 μ m). **** $p < 1 \times 10^{-5}$, Student's t test. CD45 abundance was assessed (h) & correlated with NIK staining (i) via blinded scoring from three independent observers. * $p < 0.05$, ** $p < 0.001$. Western blotting was repeated three times. Analysis of variance statistical analyses were performed. Representative data shown * $p < 0.05$, ** $p < 0.001$ Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31113953>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

a

Western Blot: ZFYVE21 Antibody [H00079038-B01P] - SMURF2-dependent degradation of vesicular PTEN. PTEN co-immunoprecipitations (co-IPs) were performed on human umbilical vein endothelial cells (HUVECs) treated for 30 min with panel reactive antibody (PRA) sera & blotted as indicated (a). Rab5 co-IPs were performed on PRA-treated HUVECs transfected with control or SMURF2 siRNA (b). Western blot analysis of whole-cell lysates of HUVECs transiently transfected with SMURF2 WT, SMURF2 DN, control siRNA, & SMURF2 siRNA (c). HUVECs transfected with control, SMURF2, or ZFYVE21 siRNA were treated with PRA & Rab5 co-IPs were performed (d). Recombinant FLAG-tagged ZFYVE21 (1 μ g) and/or recombinant SMURF2 (1 μ g) protein was incubated for 30 min at room temperature & analyzed by western blot (e). In vitro kinase assays were performed using various E2 ubiquitin ligases with SMURF2 protein (1 μ g) as the E3 ubiquitin ligase & PTEN (1 μ g) as substrate (f). In vitro kinase assays were performed using isolated SMURF2 WT or SMURF2 DN as E3 ubiquitin ligases, UbcH5c as the E2 ubiquitin ligase, & PTEN as substrate as indicated (g). HUVECs were pretreated with MG132 for 4 h or chloroquine for 30 min prior to PRA treatment at the indicated times prior to Rab5 co-IP & western blot analysis (h). Western blot analyses were repeated two to four times. Confocal microscopic studies analyzed ≥ 4 cells per group & was repeated three times. In vitro kinase assays were repeated twice. Representative data shown Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31113953>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

d

Publications

Francesca M Pramotton, Asra Abukar, Chantelle Hudson, James Dunbar, Andrew Potterton, Simone Tonicchia, Andrea Taddei, Edoardo Mazza, Costanza Giampietro DYRK1B inhibition exerts senolytic effects on endothelial cells and rescues endothelial dysfunctions. *Mechanisms of ageing and development* 2023-07-10 [PMID: 37301518]

Li, X;Jiang, Q;Song, G;Barkestani, MN;Wang, Q;Wang, S;Fan, M;Fang, C;Jiang, B;Johnson, J;Geirsson, A;Tellides, G;Pober, JS;Jane-Wit, D; A ZFYVE21-Rubicon-RNF34 signaling complex promotes endosome-associated inflammasome activity in endothelial cells *Nature communications* 2023-05-24 [PMID: 37225719] (Western Blot, Human)

Liu K Complement-Induced Post-Translational Regulation of Tgf-beta Signaling on Endothelial Cells Thesis 2021-01-01

Hampton-Smith RJ, Davenport BA, Nagarajan Y ZFYVE21 is a complement-induced Rab5 effector that activates non-canonical NF-Kappa B via phosphoinositide remodeling of endosomes *Nat Commun* 2019-05-21 [PMID: 31113953] (WB, Human)





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Products Related to H00079038-B01P

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97019-5mg	Mouse IgG Isotype Control

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