Product Datasheet

DYKDDDDK Epitope Tag Antibody - BSA Free
NB600-344

Unit Size: 0.1 ml

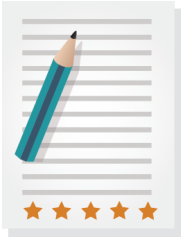
Store at 4C. Do not freeze.

www.novusbio.com technical@novusbio.com

Publications: 29

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB600-344

Updated 11/11/2025 v.20.1



NB600-344

DYKDDDDK Epitope Tag Antibody - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	1.01 kDa

Product Description

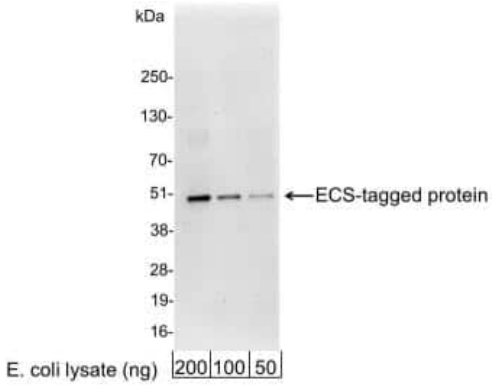
Description	Novus Biologicals Goat DYKDDDDK Epitope Tag Antibody - BSA Free (NB600-344) is a polyclonal antibody validated for use in WB, ELISA, ICC/IF and IP. Anti-DYKDDDDK Epitope Tag Antibody: Cited in 28 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Species	Epitope Tag
Specificity/Sensitivity	DYKDDDDK Epitope Tag Antibody reacts with FLAG.
Immunogen	To produce DYKDDDDK Epitope Tag Antibody, Goats were immunized with ECS, Enterokinase Cleavage Site (xxxDDDDK), conjugated to KLH. Antibody was isolated by affinity chromatography using the peptide immobilized on solid support.
Notes	FLAG(R) and ANTI-FLAG(R) are registered trademarks of Sigma-Aldrich Co. LLC.

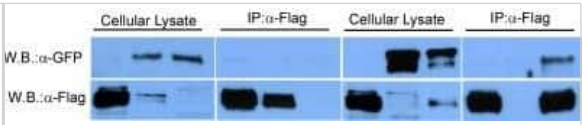
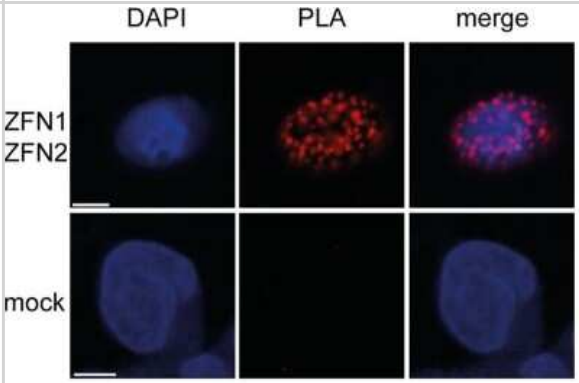
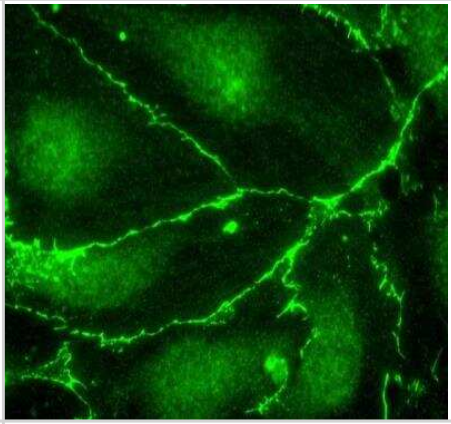
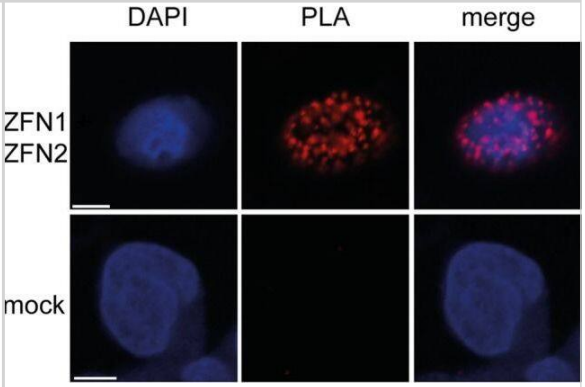
Product Application Details

Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-1:30000, ELISA 1:100-1:500 (coating); 1:1000-1:30000 (primary), Immunocytochemistry/ Immunofluorescence 1:100-1:400, Immunoprecipitation 1-4 ug/mg Lysate
Application Notes	Use in IP, WB, and ICC/IF reported in multiple pieces of scientific literature.

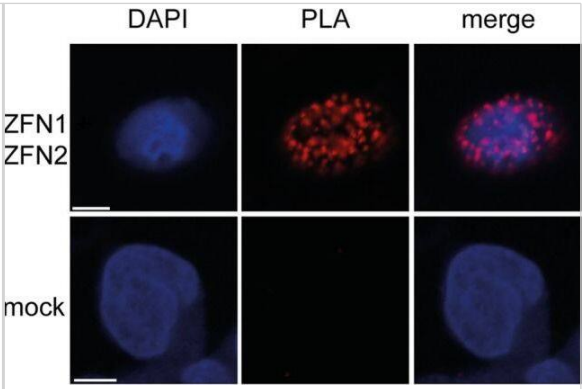
Images

Western Blot: DYKDDDDK Epitope Tag Antibody [NB600-344] - Samples: 200, 100, or 50 ng of E. coli whole cell lysate expressing a multi-tag fusion protein. Antibody: Affinity purified goat DYKDDDDK Epitope Tag Antibody [NB600-344] used for WB at 0.04 ug/ml (1:25,000). Detection: Chemiluminescence with an exposure time of 30 seconds. Observed molecular weight ~49 kDa.

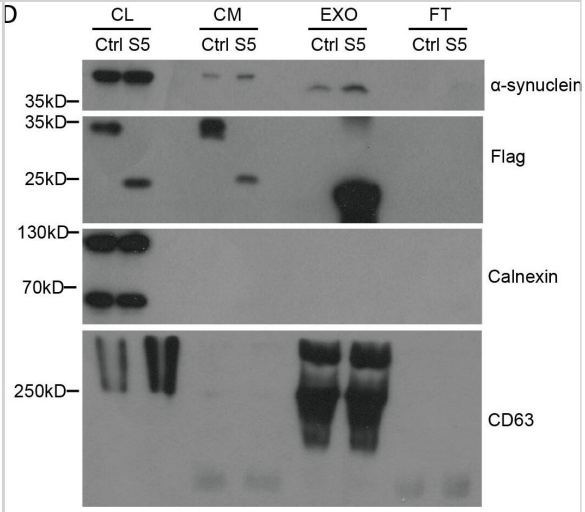


Western Blot: DYKDDDDK Epitope Tag Antibody [NB600-344] - Analysis using the Agarose Immobilized conjugate of DYKDDDDK Epitope Tag Antibody [NB600-344]. DYKDDDK in transfected COS-7 cells using agarose immobilized DYKDDDDK Epitope Tag Antibody.	
Immunocytochemistry/Immunofluorescence: DYKDDDDK Epitope Tag Antibody [NB600-344] - Expression of the ZFN as detected by PLA.PK-15 cells were transfected with the pZFN1 or pZFN2 vectors expressing the 3xFLAG tagged fluorescent proteins ZFN1-CFP or ZFN2-YFP, the nucleus was stained by DAPI and a PLA against the FLAG epitope (DYKDDDDK Epitope Tag Antibody [NB600-344]) was performed demonstrating the specific localization of the ZFN in the nucleus. Scale bars, 5 um. Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0122059), licensed under a CC-BY license.	
Immunocytochemistry/Immunofluorescence: DYKDDDDK Epitope Tag Antibody [NB600-344] - Samples: Human microvascular endothelial cells expressing FLAG tagged beta-catenin following transient transfection. Antibody: Affinity purified goat DYKDDDDK Epitope Tag Antibody [NB600-344] used at 1 ug/ml. Detection: FITC labeled rabbit anti-goat IgG (h+l).	
Expression of the ZFN as detected by PLA.PK-15 cells were transfected with the pZFN1 or pZFN2 vectors expressing the 3xFLAG tagged fluorescent proteins ZFN1-CFP or ZFN2-YFP, the nucleus was stained by DAPI and a PLA against the FLAG epitope was performed demonstrating the specific localization of the ZFN in the nucleus. Scale bars, 5 µm.	

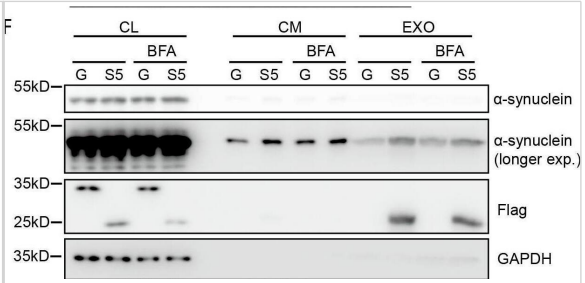
Proximity Ligation Assay: DYKDDDDK Epitope Tag Antibody - BSA Free [NB600-344] - Expression of the ZFN as detected by PLA.PK-15 cells were transfected with the pZFN1 or pZFN2 vectors expressing the 3xFLAG tagged fluorescent proteins ZFN1-CFP or ZFN2-YFP, the nucleus was stained by DAPI & a PLA against the FLAG epitope was performed demonstrating the specific localization of the ZFN in the nucleus. Scale bars, 5 µm. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/25909512), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



SCAMP5 facilitates the secretion of α-synuclein through exosome pathway.(A) Flowchart showing the exosome extraction procedure. (B) Quality control of exosome extraction. Cell lysates(CL), Cell medium (CM), exosome(EXO), Flow through(FT), and RIPA insoluable pellets of EGFP-α-synuclein stable overexpressed SH-SY5Y cells were collected according to the flowchart in 6A. The difference in apparent molecular weight was mainly due to different buffer between samples. Immunoblotting of exosome marker CD63 is conducted using native lysis buffer and native PAGE. Other proteins such as α-synuclein and ER marker Calnexin were examined with SDS-PAGE. (C) Electron microscopy images of exosomes isolated from the cell medium of SH-SY5Y cells stably expressing EGFP-α-synuclein. (D) SCAMP5 is abundant in exosomes, and it increases α-synuclein secretion via exosome. SH-SY5Y cells stably expressing EGFP-α-synuclein were transfected with Flag-GFP or Flag-SCAMP5, and harvested 48 hour later. All the samples were processed identically. The loading/total volumes of CL, CM, EXO, and FT were 2/1,200µL, 30/6,000µL, 30/200µL, 30/6,000µL respectively. (E) Quantification of secreted EGFP-α-synuclein in exosome of SH-SY5Y cells overexpressed with SCAMP5 or control in three independent experiments. (mean +/-S.E.M.; n = 3; *p<0.05). (F) SH-SY5Y cells stably expressing EGFP-α-synuclein were transfected with Flag-GFP or Flag-SCAMP5, and harvested 48 hour later. BrefeldinA was added 6 hours before harvest with a change of medium. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/28700687), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



SCAMP5 facilitates the secretion of α-synuclein through exosome pathway.(A) Flowchart showing the exosome extraction procedure. (B) Quality control of exosome extraction. Cell lysates(CL), Cell medium (CM), exosome(EXO), Flow through(FT), and RIPA insoluable pellets of EGFP-α-synuclein stable overexpressed SH-SY5Y cells were collected according to the flowchart in 6A. The difference in apparent molecular weight was mainly due to different buffer between samples. Immunoblotting of exosome marker CD63 is conducted using native lysis buffer and native PAGE. Other proteins such as α-synuclein and ER marker Calnexin were examined with SDS-PAGE. (C) Electron microscopy images of exosomes isolated from the cell medium of SH-SY5Y cells stably expressing EGFP-α-synuclein. (D) SCAMP5 is abundant in exosomes, and it increases α-synuclein secretion via exosome. SH-SY5Y cells stably expressing EGFP-α-synuclein were transfected with Flag-GFP or Flag-SCAMP5, and harvested 48 hour later. All the samples were processed identically. The loading/total volumes of CL, CM, EXO, and FT were 2/1,200μL, 30/6,000μL, 30/200μL, 30/6,000μL respectively. (E) Quantification of secreted EGFP-α-synuclein in exosome of SH-SY5Y cells overexpressed with SCAMP5 or control in three independent experiments. (mean +/-S.E.M.; n = 3; *p<0.05). (F) SH-SY5Y cells stably expressing EGFP-α-synuclein were transfected with Flag-GFP or Flag-SCAMP5, and harvested 48 hour later. BrefeldinA was added 6 hours before harvest with a change of medium. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/28700687), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Curtis AJ, Zhu J, Penny CJ, Gold MG. Molecular basis of interactions between CaMKII and ?-actinin-2 that underlie dendritic spine enlargement eLife 2023-07-25 [PMID: 37489746]

Jung JW, Kim JE, Kim E et al. Liver-originated small extracellular vesicles with TM4SF5 target brown adipose tissue for homeostatic glucose clearance Journal of Extracellular Vesicles 2022-09-05 [PMID: 36063136]

E Kim, H Um, J Park, JW Jung, JE Kim, H Lee, EA Shin, Y Pinanga, H Lee, SH Nam, JW Lee TM4SF5-dependent crosstalk between hepatocytes and macrophages to reprogram the inflammatory environment Cell Reports, 2021-11-16;37(7):110018. 2021-11-16 [PMID: 34788612]

Taylor SR, Kobayashi M, Vilella A et Al. MicroRNA-218 instructs proper assembly of hippocampal networks Elife 2023-10-20 [PMID: 37862092]

Pessina F, Giavazzi F, Yin Y et al. Functional transcription promoters at DNA double-strand breaks mediate RNA-driven phase separation of damage-response factors. Nature cell biology 2020-02-11 [PMID: 31570834]

Pingdewinde N. Sam, Elizabeth Calzada, Michelle Grace Acoba, Tian Zhao, Yasunori Watanabe, Anahita Nejatfard, Jonathan C. Trinidad, Timothy E. Shutt, Sonya E. Neal, Steven M. Claypool Impaired phosphatidylethanolamine metabolism activates a reversible stress response that detects and resolves mutant mitochondrial precursors iScience 2021-02-16 [PMID: 33718843]

Fukumoto Y, Hoshino T, Nakayama Y, Ogra Y The C-terminal tail of Rad17, iVERGE, binds the 9?1?1 complex independently of AAA+ ATPase domains to provide another clamp-loader interface DNA repair 2023-10-01 [PMID: 37713925]

Wei X, Hu J, Jiang L et al. Production and characterization of cell-penetrating recombinant botulinum neurotoxin type A STAR Protocols 2023-03-01 [PMID: 36853731]

Lee H, Kim E, Shin E et al. Crosstalk between TM4SF5 and GLUT8 regulates fructose metabolism in hepatic steatosis Molecular Metabolism 2022-02-01 [PMID: 35123128] (ICC/IF)

Wang H, Qi W, Zou C Et al. NEK1-mediated retromer trafficking promotes blood-brain barrier integrity by regulating glucose metabolism and RIPK1 activation Nature communications 2021-08-10 [PMID: 34376696] (ICC/IF)

Aarti Kuver, Hui Shen, Sheryl S. Smith Regulation of the surface expression of ?4?2? GABAA receptors by high efficacy states Brain Research 2021-06-29 [PMID: 22609410] (WB)

Mallilankaraman K, Cardenas C, Doonan PJ et al. MCUR1 is an essential component of mitochondrial Ca(2+) uptake that regulates cellular metabolism Nat Cell Biol 2012-12-01 [PMID: 23178883] (IP)

More publications at http://www.novusbio.com/NB600-344

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

Products Related to NB600-344

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB600-344

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications