

Product Datasheet

DYKDDDDK Epitope Tag Antibody - BSA Free NB600-344

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB600-344**DYKDDDDK Epitope Tag Antibody - BSA Free**

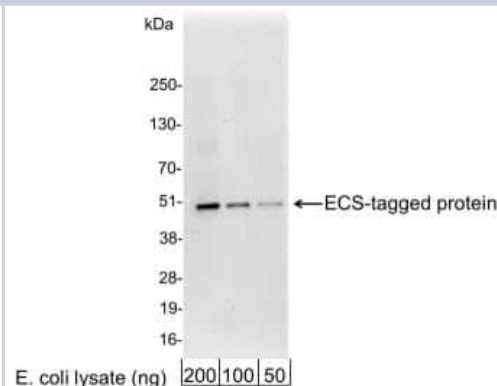
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	1.01 kDa

Product Description	
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

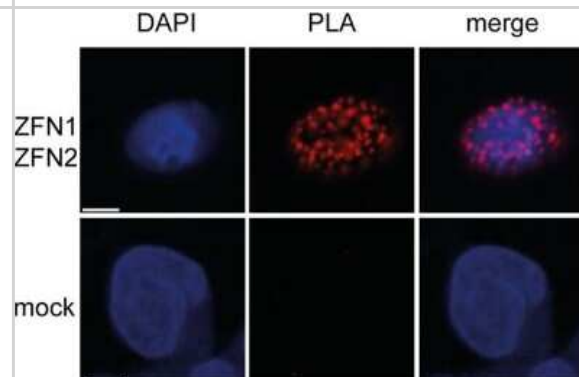
Western Blot: DYKDDDDK Epitope Tag Antibody [NB600-344] - Samples: 200, 100, or 50 ng of E. coli whole cell lysate expressing a multi-tag fusion protein. Antibody: Affinity purified goat DYKDDDDK Epitope Tag Antibody [NB600-344] used for WB at 0.04 ug/ml (1:25,000). Detection: Chemiluminescence with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



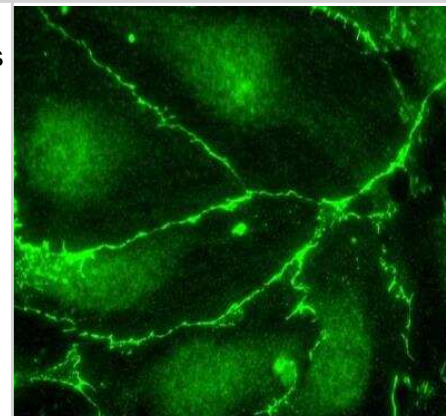
Western Blot: DYKDDDDK Epitope Tag Antibody [NB600-344] - Analysis using the Agarose Immobilized conjugate of DYKDDDDK Epitope Tag Antibody [NB600-344]. DYKDDDDK in transfected COS-7 cells using agarose immobilized DYKDDDDK Epitope Tag Antibody.



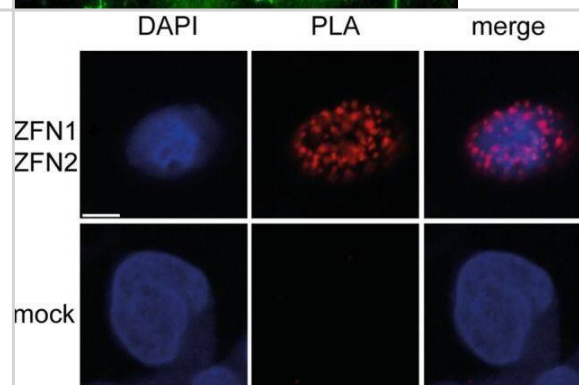
Immunocytochemistry/Immunofluorescence: DYKDDDDK Epitope Tag Antibody [NB600-344] - Expression of the ZFN as detected by PLA. PK-15 cells were transfected with the pZFN1 or pZFN2 vectors expressing the 3xFLAG tagged fluorescent proteins ZFN1-CFP or ZFN2-YFP, the nucleus was stained by DAPI and a PLA 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 μ m. 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.



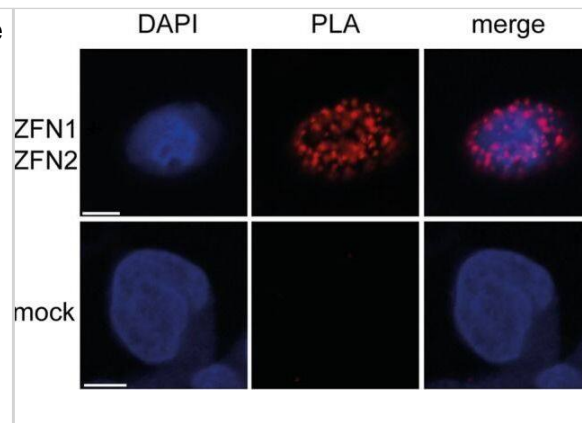
Immunocytochemistry/Immunofluorescence: DYKDDDDK Epitope Tag Antibody [NB600-344] - Samples: Human microvascular endothelial cells expressing FLAG tagged beta-catenin following transient transfection. Antibody: Affinity purified goat DYKDDDDK Epitope Tag Antibody [NB600-344] used at 1 μ g/ml. Detection: 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 μ m.



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 μ m. 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.



Publications

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]

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]

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

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 γ ? γ ? 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)

Semaan M, Ivanusic D, Denner J. Cytotoxic Effects during Knock Out of Multiple Porcine Endogenous Retrovirus (PERV) Sequences in the Pig Genome by Zinc Finger Nucleases (ZFN) PLoS One 2015-04-24 [PMID: 25909512] (PLA)

Yokoi S, Ishihara N, Miya F et al. TUBA1A mutation can cause a hydranencephaly-like severe form of cortical dysgenesis *Sci Rep* 2015-10-23 [PMID: 26493046] (WB)

Gorur A, Yuan L, Kenny SJ et al. COPII-coated membranes function as transport carriers of intracellular procollagen-1 *bioRxiv* 2017-02-21 [PMID: 28428367] (WB, ICC/IF)

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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

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