Product Datasheet

Polyoma Virus, Medium T Antigen Antibody (PyMT) - BSA Free

NB100-2749

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Reviews: 1 Publications: 13

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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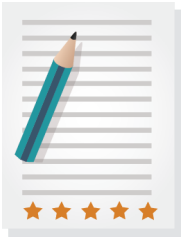
Updated 9/9/2025 v.20.1



NB100-2749

Polyoma Virus, Medium T Antigen Antibody (PyMT) - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	PyMT
Preservative	0.02% Sodium Azide
Isotype	IgG2b
Purity	Protein G purified
Buffer	PBS

Product Description

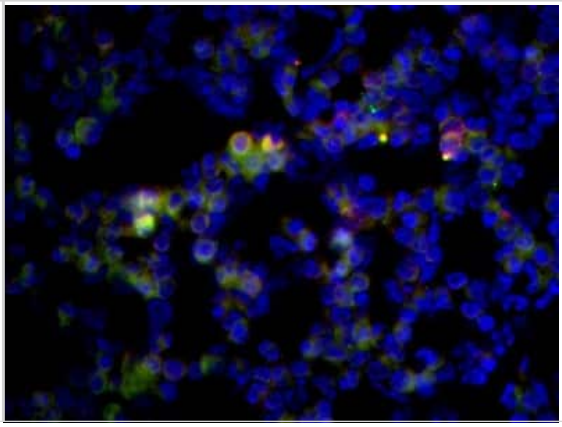
Description	Novus Biologicals Rat Polyoma Virus, Medium T Antigen Antibody (PyMT) - BSA Free (NB100-2749) is a monoclonal antibody validated for use in IHC, WB, Dual RNAscope ISH-IHC, ICC/IF and IP. Anti-Polyoma Virus, Medium T Antigen Antibody: Cited in 13 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rat
Species	Virus
Reactivity Notes	Polyoma Virus. Mouse reactivity reported in multiple pieces of scientific literature.
Immunogen	Polyoma Virus-transformed Wistar rat fibroblast cell line Py REWA5/T1A1.

Product Application Details

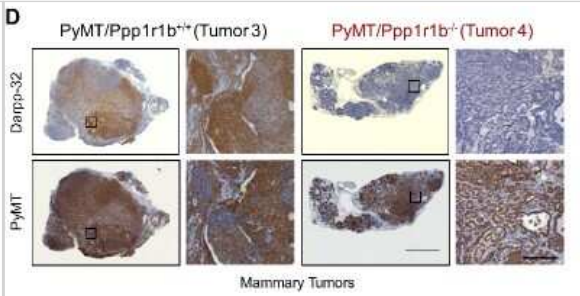
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Dual RNAscope ISH-IHC
Recommended Dilutions	Western Blot 1:100-1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10-1:2000, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin reported in scientific literature (PMID 19816927), Dual RNAscope ISH-IHC reported in scientific literature (PMID 30367629)

Images

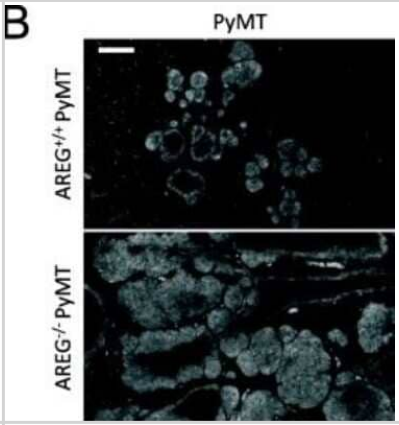
Immunocytochemistry/Immunofluorescence: Polyoma Virus, Medium T Antigen Antibody (PyMT) [NB100-2749] - PyMT-transgenic mouse mammary glands were stained in green for the PyMT protein. Staining showed good membrane/cytoplasmic localization with moderate signal for most cells in mammary tumor. Blocking performed with 20% goat serum. Image from verified customer review.



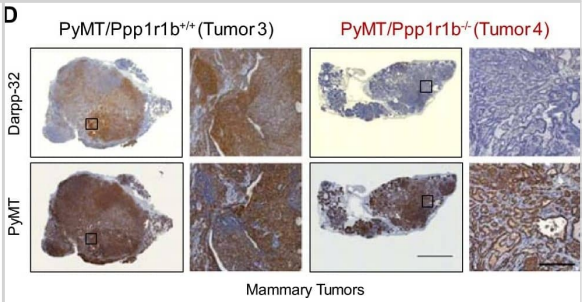
Immunohistochemistry-Paraffin: Polyoma Virus, Medium T Antigen Antibody (PyMT) [NB100-2749] - Darpp-32 and t-Darpp expression inPpp1r1bknockout mice. Mammary tumor samples were formalin-fixed and serial sections were stained for Darpp-32 and PyMT (5x magnification in a 6 x 6 tile, scale bar = 2000 um; images enlarged from the boxed regions are at 10x magnification, scale bar = 200 um). Image collected and cropped by CiteAb from the following publication (https://molecular-cancer.biomedcentral.com/articles/10.1186/1476-4598-13-192), licensed under a CC-BY license.



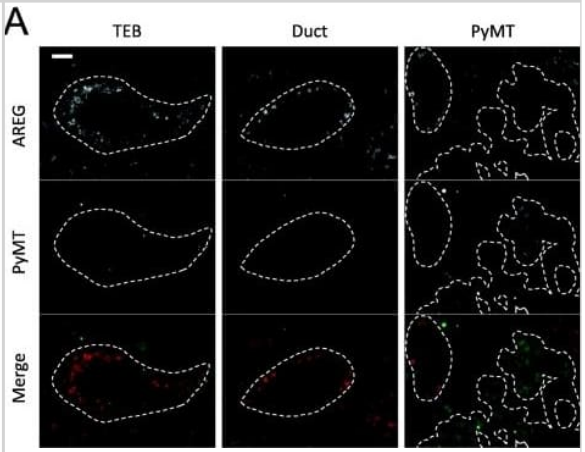
Immunohistochemistry: Polyoma Virus, Medium T Antigen Antibody (PyMT) [NB100-2749] - AREG not expressed in PyMT lesions. Representative images of PyMT immunofluorescent staining of 6-week-old AREG +/+ PyMT and AREG -/- PyMT MFPs, respectively. Scale bar shows 100 um. Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/30367629/) licensed under a CC-BY license.



Darpp-32 and t-Darpp expression inPpp1r1bknockout mice. (D) Mammary tumor samples were formalin-fixed and serial sections were stained for Darpp-32 and PyMT (5× magnification in a 6 × 6 tile, scale bar = 2000 µm; images enlarged from the boxed regions are at 10× magnification, scale bar = 200 µm). Tumor numbers correspond to the numbering in panel C.



Immunocytochemistry/ Immunofluorescence: Polyoma Virus, Medium T Antigen Antibody (PyMT) [NB100-2749] - AREG not expressed in PyMT lesions. a Tissue sections hybridized in situ with AREG probe (dots in ducts), & PyMT protein detected by immunofluorescence. Individual channels shown in gray scale; merged image shows AREG in red & PyMT in green. Ductal structures or lesions outlined in white, & labeling of surrounding adipose tissue is nonspecific background staining. Scale bar shows 50 µm. b Representative images of PyMT immunofluorescent staining of 6-week-old AREG+/+ PyMT & AREG−/− PyMT MFPs, respectively. Scale bar shows 100 µm. c At least 10 mammary glands were analyzed for PyMT staining intensity. Statistical analysis performed using t test. AREG amphiregulin, n.s. not significant, PYMT polyoma middle-T antigen, TEB terminal end bud Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/30367629), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Passarelli MC, Pinzaru AM, Asgharian H et al. Leucyl-tRNA synthetase is a tumour suppressor in breast cancer and regulates codon-dependent translation dynamics Nature cell biology 2022-03-01 [PMID: 35288656] (WB)

Borriello L, Coste A, Traub B et al. Primary tumor associated macrophages activate programs of invasion and dormancy in disseminating tumor cells Nature communications 2022-02-02 [PMID: 35110548] (IF/IHC, Virus)

Park MK, Zhang L, Min KW et al. NEAT1 is essential for metabolic changes that promote breast cancer growth and metastasis Cell metabolism 2021-12-07 [PMID: 34879239] (IF/IHC)

Williams MM, Christenson JL, O'Neill KI et al. MicroRNA-200c restoration reveals a cytokine profile to enhance M1 macrophage polarization in breast cancer NPJ breast cancer 2021-05-27 [PMID: 34045467] (ICC/IF)

Tavora B, Mederer T, Wessel KJ et al. Tumoural activation of TLR3-SLIT2 axis in endothelium drives metastasis Nature 2020-10-01 [PMID: 32999457]

Bueno MJ, Jimenez-Renard V, Samino S et al. Essentiality of fatty acid synthase in the 2D to anchorage-independent growth transition in transforming cells Nat Commun. 2019-11-01 [PMID: 31676791] (WB, Mouse)

Mao SPH, Park M, Cabrera RM et al. Loss of amphiregulin reduces myoepithelial cell coverage of mammary ducts and alters breast tumor growth. Breast Cancer Res. 2018-10-26 [PMID: 30367629] (Dual ISH-IHC, Mouse)

Joshi S, Yang J, Wang Q et al. 14-3-3zeta loss impedes oncogene-induced mammary tumorigenesis and metastasis by attenuating oncogenic signaling. Am J Cancer Res 2017-09-01 [PMID: 28861322] (WB, Mouse)

Details:
The Novus anti-PyMT antibody was used for the immunoblot analysis of PyMT levels in PyMT/14-3-3 positive and PyMT/14-3-3 negative mice

Christenson JL, Butterfield KT, Spoelstra NS et al. MMTV-PyMT and Derived Met-1 Mouse Mammary Tumor Cells as Models for Studying the Role of the Androgen Receptor in Triple-Negative Breast Cancer Progression. Horm Cancer. 2017-02-13 [PMID: 28194662]

Christenson JL, Kane SE. Darpp-32 and t-Darpp are differentially expressed in normal and malignant mouse mammary tissue Mol. Cancer 2014-08-25 [PMID: 25128420]

Dilworth SM, Griffin BE. Monoclonal antibodies against polyoma virus tumor antigens. Proc Natl Acad Sci USA. 1982-02-01 [PMID: 6175960] (IP)

Guest I, Ilic Z, Ma J et al. Direct and indirect contribution of bone marrow-derived cells to cancer. Int J Cancer. 2010-05-15 [PMID: 19816927] (IHC-P)

More publications at http://www.novusbio.com/NB100-2749

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 NB100-2749

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
F0105B	Goat anti-Rat IgG Secondary Antibody [Phycoerythrin]
DDXCR03	Rat IgG2b Isotype Control
NB100-2749F	Polyoma Virus, Medium T Antigen Antibody (PyMT) [FITC]

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.

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