

Product Datasheet

EGFR Antibody (DH8.3) - EGFRvIII, Mutant - BSA Free NBP2-50599

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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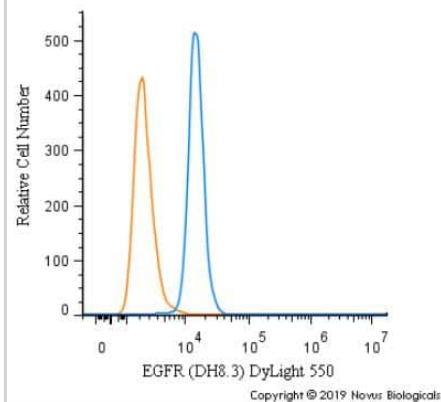
NBP2-50599

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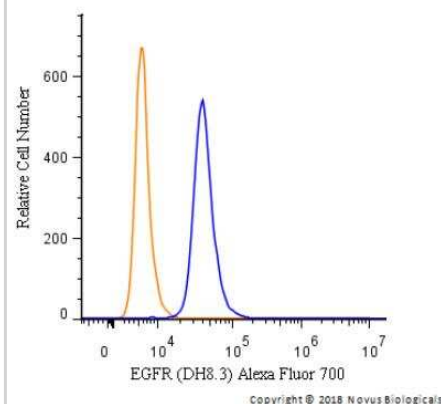
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	DH8.3
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Product Description	
Description	Anti-EGFRvIII antibody clone (DH8.3) recognizes EGFRvIII, a mutated form of EGFR with a truncated extracellular domain found on human tumors. Stably trans
Host	Mouse
Gene ID	1956
Gene Symbol	EGFR
Species	Human
Specificity/Sensitivity	Clone DH8.3 of EGF R/ErbB1 antibody is specific for Truncated EGFR which is also called EGFR type III, EGFRvIII or delta-EGFR (characterised by a deletion of 267 amino acids in the extracellular domain, leading to a receptor which is unable to bind ligand yet is constitutively active). Because of its impaired internalisation and degradation, EGFRvIII is known to enhance tumourigenesis. NOTE: Clone DH8.3 DOES NOT cross-react with full length or wildtype EGFR (wtEGFR).
Immunogen	Synthetic peptide corresponding to the junctional region of the truncated receptor LEEKKGNYVVDHC, conjugated to keyhole limpet haemocyanin.
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunohistochemistry, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 1:100 - 1:2000, Flow Cytometry 1:10 - 1:1000, ELISA 1:100 - 1:2000, Immunohistochemistry 1:10 - 1:500, Immunoprecipitation 1:10 - 1:500, CyTOF-ready
Application Notes	This antibody is Cytof ready.

Images

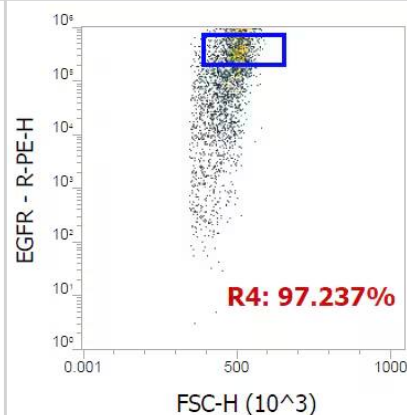
Flow Cytometry: EGFR Antibody (DH8.3) - EGFRvIII [NBP2-50599] - An intracellular stain was performed on A431 cells with EGFR [DH8.3] Antibody NBP2-50599R (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to DyLight 550.



Flow Cytometry: EGFR Antibody (DH8.3) - EGFRvIII [NBP2-50599] - An intracellular stain was performed on A431 cells with EGFR [DH8.3] Antibody NBP2-50599AF700 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 700.



Flow Cytometry: Mouse Monoclonal EGFR Antibody (DH8.3) - EGFRvIII [NBP2-50599] - Analysis of glioblastoma cell lines using EGFR Antibody. Image from a verified customer review.



Publications

Yu-Chuan Lin, Chun-Hung Hua, Hsin-Man Lu, Shi-Wei Huang, Yeh Chen, Ming-Hsui Tsai et al. CAR-T cells targeting HLA-G as potent therapeutic strategy for EGFR-mutated and overexpressed oral cancer *iScience* 2023-03-17 [PMID: 36876120]

Tugba Kilic, Young Kwan Cho, Naebong Jeong, Ik-Soo Shin, Bob S. Carter, Leonora Balaj, Ralph Weissleder, Hakho Lee Multielectrode Spectroscopy Enables Rapid and Sensitive Molecular Profiling of Extracellular Vesicles *ACS Central Science* 2022-01-07 [PMID: 35111901]

M Sidorov, P Dighe, RWL Woo, A Rodriguez-, M Chen, RJ Ice, E Vaquero, D Jian, PY Desprez, M Nosrati, L Galvez, L Leng, L Dickinson, M Kashani-Sa, SD McAllister, L Soroceanu Dual Targeting of EGFR and MTOR Pathways Inhibits Glioblastoma Growth by Modulating the Tumor Microenvironment Cells, 2023-02-08;12(4):. 2023-02-08 [PMID: 36831214] (WB, Human)

Park D, Liaw K, Bhojnagarwala P et al. Multivalent in vivo delivery of DNA-encoded bispecific T cell engagers effectively controls heterogeneous GBM tumors and mitigates immune escape *Molecular Therapy - Oncolytics* 2023-03-01 [PMID: 36915911]

Welsh J, Killingsworth B, Kepley J et al. MPAPASS software enables stitched multiplex, multidimensional EV repertoire analysis and a standard framework for reporting bead-based assays *Cell Rep Methods* 2022-04-27 [PMID: 35474866]

Banisadr A, Eick M, Beri P et al. EGFRvIII uses intrinsic and extrinsic mechanisms to reduce glioma adhesion and increase migration *J Cell Sci* 2020-11-26 [PMID: 33243756]

Plichta Z, Horak D, Marekova D et al. Poly[N-(2-hydroxypropyl)methacrylamide]-Modified Magnetic gamma-F2 O3 Nanoparticles Conjugated with Doxorubicin for Glioblastoma Treatment *ChemMedChem* 2020-01-07 [PMID: 31670889] (FLOW, Human)

Johns TG, Stockert E, Ritter G et al. Novel monoclonal antibody specific for the de2-7 epidermal growth factor receptor (EGFR) that also recognizes the EGFR expressed in cells containing amplification of the EGFR gene. *Int J Cancer*. [PMID: 11920591] (ELISA)

Nishikawa R1, Sugiyama T, Narita Y et al. Immunohistochemical analysis of the mutant epidermal growth factor, deltaEGFR, in glioblastoma. *Brain Tumor Pathol*. [PMID: 15700833] (IF/IHC)

Jungbluth A, Stockert E, Huang H et al. A monoclonal antibody recognizing human cancers with amplification/overexpression of the human epidermal growth factor receptor. *Proc Natl Acad Sci U S A*. [PMID: 12515857] (IF/IHC)





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Products Related to NBP2-50599

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NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP2-52953PEP	EGFR Recombinant Protein Antigen

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