

PE anti-human EGFRvIII Antibody

Catalog# / Size	377125 / 25 tests 377126 / 100 tests
Clone	W23124I
Regulatory Status	RUO
Other Names	Epidermal growth factor receptor variant III
Isotype	Rat IgG2b, κ
Description	Epidermal growth factor receptor variant III (EGFRvIII) arises from an in-frame deletion of exons 2 to 7 in the extracellular region of EGFR, resulting in a truncated receptor that is constitutively active. This mutation is cancer-specific and is present in approximately 50% of glioblastoma tumors.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	The extracellular domain of human EGFRvIII (epidermal growth factor receptor variant III)
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)

Antigen Details

Structure	Deletion of exons 2-7 of the EGFR gene. Molecular mass of approximately 145 kD.
Distribution	Present in approximately 50% of glioblastoma tumors
Function	Pro-tumorigenic (promotes tumor growth, survival, invasion, stemness, metabolism, and angiogenesis).
Biology Area	Cancer Biomarkers

Antigen References

1. Hui G, *et al.* 2013. *FEBS Journal*. 280:21.

Gene ID

[1956](#)

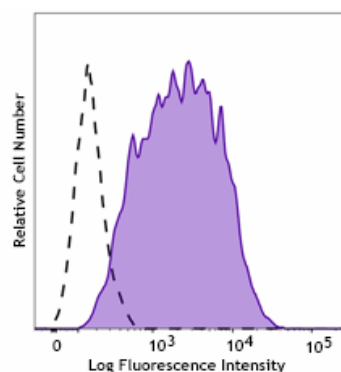
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human EGFRvIII, PE anti-human EGFRvIII

Product Data



Human glioblastoma cell line, DKMG/EGFRvIII, was stained with anti-human EGFRvIII (clone W23124I) PE (filled histogram) or rat IgG2b, κ PE isotype control (open histogram).

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