

anti-Human EGFRvIII Antibody | anti-EGFRvIII antibody

Anti-EGFRvIII [806]

CATALOG #	REACTIVITY	APPLICATIONS
AAA72336	Human	Immunohistochemistry, Immunoprecipitation, Flow Cytometry, Functional Assay

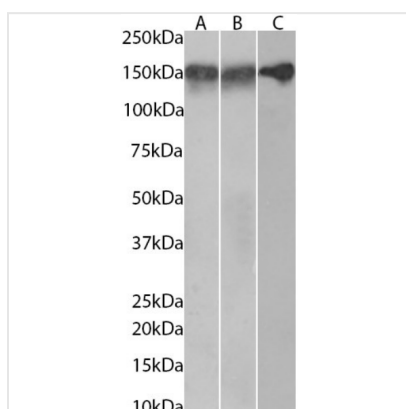
PRODUCT SYNONYMS

EGFRvIII; Anti-EGFRvIII [806]; de2-7 EGFR; EGF receptor; delta2-7 epidermal growth factor receptor; Epidermal Growth Factor Receptor variant III; anti-EGFRvIII antibody

PRODUCT SPECIFICATIONS

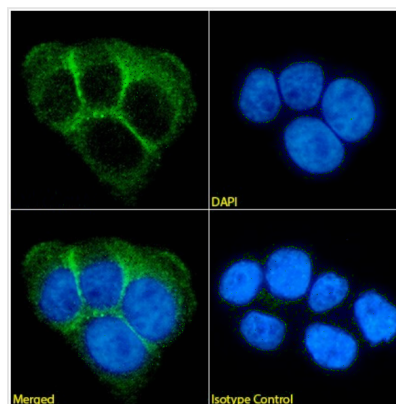
Reactivity	Human
Isotype	Mouse IgG2b kappa
Clone Number	806
Specificity	This antibody is specific for the human delta2-7 epidermal growth factor receptor (de2-7 EGFR or EGFRvIII) which is a truncated version of the EGFR commonly expressed in glioma. This antibody does not bind wild type EGF receptor. Studies have shown that it binds a cryptic epitope on the EGFR in the region between amino acids 287-302, and it is suggested that breaking the disulfide bond preceding the epitope might allow the CR1 domain to open up sufficiently for antibody binding.
Purity/Purification	Purified. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-EGFRvIII antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry)
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



WB (Western Blot)

Western blot using anti-EGFRvIII antibody 806 . A431 (A) (0.003ug/ml), HeLa (B) (0.3ug/ml), and MDA-MB-231 (C) (0.1ug/ml) cells lysates (35ug protein in RIPA buffer) were resolved via SDS-PAGE, and the subsequent blots were probed with the chimeric rabbit version of 806 at the mentioned respective concentrations before detection using an anti-rabbit secondary antibody. A primary incubation of 1 hour was used, and proteins were detected by chemiluminescence.



IF (Immunofluorescence)

Immunofluorescence staining of A431 cells with anti-EGFRvIII antibody 806 . Immunofluorescence analysis of paraformaldehyde fixed A431 cells on Shi-fix™ coverslips stained with the chimeric rabbit IgG version of 806 (1:100 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), showing cell junction staining. The nuclear stain is DAPI (blue). Panels show, from left-right, top-bottom, DAPI, merged channels, and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-EGFRvIII antibody	The original antibody was generated by immunization of mice with NR6 mouse fibroblasts expressing the truncated de2-7 EGFR. Describes the generation of this antibody and examines the antitumor activity of this antibody against human tumor xenografts grown in nude mice.
Product Categories/Family for anti-EGFRvIII antibody	cancer ; oncology ; tumor ; glioma ; immunotherapy
References	Luwor et al. Cancer Res. 2001 Jul 15;61(14):5355-61.

NCBI AND UNIPROT INFORMATION

NCBI GI #	29725609
NCBI GeneID	1956
NCBI Accession #	NP_005219.2
NCBI GenBank Nucleotide #	NM_005228.3
UniProt Accession #	P00533 ; O00688 ; O00732 ; P06268 ; Q14225 ; Q68GS5 ; Q92795 ; Q9BZS2 ; Q9GZX1 ; Q9H2C9 ; Q9H3C9 ; Q9UMD7
NCBI Official Full Name	epidermal growth factor receptor isoform a
NCBI Official Synonym Full Names	epidermal growth factor receptor
NCBI Official Symbol	EGFR
NCBI Official Synonym Symbols	ERBB; HER1; mENA; ERBB1; PIG61
NCBI Protein Information	epidermal growth factor receptor; proto-oncogene c-ErbB-1; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; receptor tyrosine-protein kinase erbB-1; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog
UniProt Protein Name	Epidermal growth factor receptor
UniProt Gene Name	EGFR
UniProt Synonym Gene Names	ERBB; ERBB1; HER1
UniProt Entry Name	EGFR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.