

## EGFR vIII Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P78117
Synonyms:	ErbB; EC 2.7.10; EC 2.7.10.1; EGFR; mENA; LEGFR; ERBB; ERBB1; HER1; PIG61; NISBD2
Species:	Human
Source:	HEK293
Accession:	NP_001333870 (L25-S378)
Gene ID:	1956
Molecular Weight:	65-80 kDa

### PROPERTIES

AA Sequence	<pre> L E E K K G N Y V V   T D H G S C V R A C   G A D S Y E M E E D   G V R K C K K C E G P C R K V C N G I G   I G E F K D S L S I   N A T N I K H F K N   C T S I S G D L H I L P V A F R G D S F   T H T P P L D P Q E   L D I L K T V K E I   T G F L L I Q A W P E N R T D L H A F E   N L E I I R G R T K   Q H G Q F S L A V V   S L N I T S L G L R S L K E I S D G D V   I I S G N K N L C Y   A N T I N W K K L F   G T S G Q K T K I I S N R G E N S C K A   T G Q V C H A L C S   P E G C W G P E P R   D C V S C R N V S R G R E C V D K C N L   L E G E P R E F V E   N S E C I Q C H P E   C L P Q A M N I T C T G R G P D N C I Q   C A H Y I D G P H C   V K T C P A G V M G   E N N T L V W K Y A D A G H V C H L C H   P N C T Y G C T G P   G L E G C P T N G P   K I P S           </pre>
Biological Activity	<p>1. Immobilized Biotinylated Human EGFR vIII His at 0.5 µg/mL (100µL/Well) on the plate. Dose response curve for Anti-EGFR vIII Antibody hFc with the EC<sub>50</sub> &lt; 20 ng/mL determined by ELISA.</p> <p>2. Loaded Anti-Human EGFR mAb on Pro-A Biosensor, can bind EGFR vIII Protein, Human (Biotinylated, HEK293, His-Avi) with an affinity constant of 3.64 nM as determined in BLI assay.</p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4 or 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

The EGFRvIII protein is a transmembrane glycoprotein belonging to the protein kinase superfamily and serves as a receptor for members of the epidermal growth factor family. Operating as a cell surface protein, EGFRvIII binds to epidermal growth factor, initiating receptor dimerization and tyrosine autophosphorylation, thereby promoting cell proliferation. Mutations in this gene are associated with lung cancer. Furthermore, EGFRvIII is implicated as a component of the cytokine storm, contributing to the severity of Coronavirus Disease 2019 (COVID-19) caused by infection with severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2). [provided by RefSeq, Jul 2020]

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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