## IVMB0240



## Product Information

<b>Product SKU</b> :	IVMB0240	Clone:	C225	Target:	EGFR	
Size:	500 µg			<b>lsotype</b> :	Human lgG1к	
Additional Information						
Reactivity:	Human			Host Species:	Human	
Antibody Type	e: Biosimilar Recomb	Biosimilar Recombinant Human Monoclonal Antibody		Expression Ho	ost: HEK-293 Cells	

## **Immunogen Information**

Background: EGFR is a 170 kD transmembrane glycoprotein that is part of the ErbB family of receptors within the protein kinase superfamily. EGFR is one of four closely related receptor tyrosine kinases: EGFR (ErbB-1), HER2/c-neu (ErbB-2), Her 3 (ErbB-3) and Her 4 (ErbB-4). EGFR is essential for various processes including controlling cell growth and differentiation and ductal development of the mammary glands. Ligand binding induces dimerization and autophosphorylation. It consists of a glycosylated extracellular domain which binds to EGF and an intracellular domain with tyrosine-kinase activity necessary for signal transduction. TGF $\alpha$ , vaccinia virus growth factor, and related growth factors can also bind to and signal through EGFR. Abnormal EGFR signaling has been implicated in inflammatory diseases such as psoriasis, eczema and atherosclerosis. Alzheimer's disease is linked with poor signaling of the EGFR and other receptor tyrosine kinases. Furthermore, over-expression of the EGFR is linked with the growth of various tumors. EGFR has been identified as an oncogene, a gene which in certain circumstances can transform a cell into a tumor cell, which has led to the therapeutic development of anticancer EGFR inhibitors. EGFR is a well-established target for both mAbs and specific tyrosine kinase inhibitors. Anti-Human EGFR (Cetuximab) utilizes the same variable regions from the therapeutic antibody Cetuximab making it ideal for research projects. Endotoxin Level: < 1.0 EU/mg as determined by the LAL method

Applications:

CyTOF



Synonyms:	ErbB-1; HER1; epidermal growth factor receptor
Antigen Distribution:	EGFR is ubiquitously expressed and found in the plasma membrane.
Immunogen:	Human EGFR/ErbB1
Formulation:	This biosimilar antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.
Specificity:	This non-therapeutic biosimilar antibody uses the same variable region sequence as the therapeutic antibody Cetuximab. This product is for research use only. Cetuximab activity is directed against Human EGFR.
Product Preparation:	Recombinant biosimilar antibodies are manufactured in an animal free facility using onlyin vitroprotein free cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.
Ctorege & Llondling	Functional grade biogimilar antibadias may be stared starils as respired at 2.9% for up to

Storage & Handling:Functional grade biosimilar antibodies may be stored sterile as received at 2-8°C for up to<br/>one month. For longer term storage, aseptically aliquot in working volumes without diluting<br/>and store at -80°C. Avoid Repeated Freeze Thaw Cycles.