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Datasheet for ABIN7487725

Recombinant anti-EGFR (Matuzumab Biosimilar) antibody

Overview

Quantity:	200 µg
Target:	EGFR (Matuzumab Biosimilar)
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Chimeric
Conjugate:	This EGFR (Matuzumab Biosimilar) antibody is un-conjugated
Application:	ELISA, Antagonist (Anta), Blocking Reagent (BR), Flow Cytometry (FACS), Immunofluorescence (IF), Western Blotting (WB)

Product Details

Immunogen:	The parental mouse antibody was generated by immunizing BALB/c mice intraperitoneally with A431 cells in phosphate buffered saline (PBS). Later on the humanized version of the antibody was created by grafting CDRs of the murine antibody onto human constant regions.
Isotype:	IgG1 kappa
Specificity:	This antibody binds the extracellular domain III of the human EGFR and does not cross react with murine EGFR. It was also reported that residues S460/G461 in EGFR domain III are essential components of the epitope. This antibody binds at a site distinct from the EGF binding site, preventing conformational re-arrangement required for dimerization, a process essential for high-affinity ligand binding (Schmiedel, 2008). This antibody can only recognize the active form of EGFR. The antibody binds to both glyco- and aglyco receptor forms. EGFR is a transmembrane mitogenic glycoprotein with a cytoplasmically facing tyrosine kinase site which

Product Details

is activated by binding of the epidermal growth factor in the external domain. It also binds transforming growth factor alpha (TGFA). EGFR a member of the epidermal growth factor family and is closely related to receptor tyrosine kinases. This receptor tyrosine kinase binds ligands of the EGF family and activates signalling cascades to convert extracellular cues into appropriate cellular responses. Mutations that lead to EGFR overexpression (known as upregulation) or overactivity have been associated with a number of cancers, including lung cancer, anal cancers and glioblastoma multiforme as well as inflammatory diseases

Characteristics: OriginalSpeciesName: Human
OriginalFormat: IgG1

Purification: Purified antibody.

Target Details

Target: EGFR (Matuzumab Biosimilar)

Abstract: [EGFR \(Matuzumab Biosimilar\) Products](#)

Background: ErbB-1, ERBB1, HER1, EGF, Epidermal growth factor receptor, Proto-oncogene c-ErbB-1, Receptor tyrosine-protein kinase erbB-1, EMD72000, mAb425, 425, mAb 425

UniProt: [P00533](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: This chimeric murine antibody was made using the variable domain sequences of the original Human IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Restrictions: For Research Use only

Handling

Buffer: PBS with 0.02 % Proclin 300.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.