

## Datasheet for ABIN7487725 Recombinant anti-EGFR (Matuzumab Biosimilar) antibody



Overview

010111011	
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, Blocking Reagent (BR), Flow Cytometry (FACS), Western Blotting (WB), Antagonist (Anta), Immunofluorescence (IF)
Product Details	
Purpose:	Anti-EGFR [Matuzumab], Mouse IgG1, kappa
Immunogen:	The parental mouse antibody was generated by immunizing BALB/c mice intraperitoneally with A431 cells in phosphate buffered saline (PBS). Later on the humanzied version of the antibody was created by grafting CDRs of the murine antibody onto human constant regions.
Isotype:	lgG1 kappa
Specificity:	

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## Product Details

	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
	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 signallying 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:	Original Species of Ab: Human
	Original Format of Ab: IgG1
Purification:	Protein A affinity purified
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:	This antibody is derived from a mouse parental clone mAb 425 which has demonstrated anti-
	tumor activity against solid tumors in phase I clinical trials. The binding characterization of this
	antibody to human EGFR was done using ELISA. This antibody was also found to bind human
	EGFR with a similar avidity as the parental mouse antibody 425 (PMID: 1798701). The parental
	mouse antibody 425 in combination with C225 (Cetuximab) reduced growth and survival of
	EGFR overexpressing MDA-MB-468 breast cancer cells more effectively than either antibody
	alone. The combination was also reported to effectively inhibited AKT and MAPK
	phosphorylation in MDA-MB-468 cell (PMID: 18424917). This antibody was used in a phase 1
	study to investigate the safety and tolerability and to explore the pharmacokinetic and
	pharmacodynamic profile in patients with solid tumors that express EGFR (PMID: 14701780).
	This antibody has been used in various phase I studies alone or in combination with other
	therapeutic agents to treat patients with various type of cancers (PMID: 16533873, 16622465,

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Application Details		
	19238629). A study reported that the antitumor effects of matuzumab and cetuximab depend on inhibition of EGFR downstream signaling mediated by Akt or Erk rather than on inhibition of EGFR itself (PMID: 18033688).	
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		
Concentration:	1 mg/mL	
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.	