2157

Human EGF Neutralizing (D8A1) Rabbit



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: N	Reactivity: H	Source/Isotype: Rabbit IgG	UniProt ID: #P01133	Entrez-Gene Id: 1950		
Product Usage Information		CST recommends incubation of the neutralizing antibody with the intended target for 1 hr at 37°C before addition to the experiment at an optimal concentration determined by the user.				
		Application Neutralizing		Dilution 1:1		
Formulation		Lyophilized from a 0.2 μm filtered solution in 10 mM HEPES with trehalose.				
Storage		Store lyophilized material at -20°C. After reconstitution, recommended storage at 4°C for 1 month or -20°C for 6 months. Avoid repeated freeze/thawing.				
Specificity/Sensi	tivity	Human EGF Neutralizing (D8A1) Rabbit mAb binds to human EGF and neutralizes its effects in an MCF 10A cell proliferation assay. This antibody does not cross-react with human betacellulin or human TGF- α.				
Source / Purifica	tion	Monoclonal antibody is produced by immunizing animals with a recombinant human EGF protein.				
Description		Neutralizing antibodies can be used to inhibit normal biological function through their binding to biological molecules. These reagents can be used to determine the effects that a particular molecule has in biological systems. Human EGF Neutralizing (D8A1) Rabbit mAb has been shown to neutralize the EGF-induced proliferation of MCF 10A cells <i>in vitro</i> with an ND ₅₀ in the range of 200-700 ng/ml.				
Background		EGF is produced by epithelial cells, fibroblasts, and many other cell types (1,2). Low molecular weight soluble EGF is generated through proteolysis of a larger ~130,000 kDa transmembrane precursor (1,2). Both soluble and membrane forms of EGF are active (2). EGF induces proliferation, differentiation, and survival of many cell types including tumor-derived cells (1-3). There are multiple members of the EGF family and multiple members of the HER/ErbB EGF receptor family. EGF binds to HER1/ErbB1 and induces homo- or heterodimerization with other HER/ErbB family members, resulting in signaling through the MAPK, PI3K/Akt, and Stat5 pathways (1). Research studies have implicated EGF, EGF family members, EGF receptors, and their signaling pathways in many cancers (1,2).				
Background Ref	erences	1. Citri, A. and Yarden, Y. (2 2. Higashiyama, S. et al. (20 3. Xian, C.J. (2007) <i>Endocr R</i>	008) <i>Cancer Sci</i> 99, 21			
Species Reactivi	ty	Species reactivity is determ	ined by testing in at	least one approved application (e.g., western blot).		
Applications Key	,	N: Neutralizing				
Cross-Reactivity	Кеу	H: Human				
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