

Mouse Epiregulin Alexa Fluor® 647-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1068R

100 µg

DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse Epiregulin in direct ELISAs and Western blots. In direct ELISAs, approximately 40% cross-reactivity with recombinant human Epiregulin is observed. In Western blots, recombinant mouse Proepiregulin and mature Epiregulin is detected	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant mouse Epiregulin Val56-Leu101 Accession # Q61521	
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm	
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shee (SDS) for additional information and handling instructions.	

APPLICATIONS		
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.		
Neutralization	Optimal dilution of this antibody should be experimentally determined.	
Western Blot	Optimal dilution of this antibody should be experimentally determined.	

PREPARATION AND STORAGE		
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied	

BACKGROUND

Epiregulin is a member of the EGF family of growth factors which includes, among others, epidermal growth factor (EGF), transforming growth factor (TGF)-alpha, amphiregulin (ARG), HB (heparin-binding)-EGF, betacellulin, and the various heregulins. They are all synthesized as transmembrane precursors and converted to soluble forms by proteolytic cleavage. Epiregulin was originally purified from the mouse fibroblast-derived tumor cell line NIH3T3/T7 (1). The mouse Epiregulin cDNA encodes for a transmembrane precursor of 162 amino acid in length, with the mature soluble form comprising residues 56-101 (2). The mode of action of Epiregulin is similar to other EGF family members in that it binds to and activates the tyrosine-kinase, ErbB-family receptors (ErbB1 through B4) (3). Although it stimulates phosphorylation of all four receptors, it appears to interact primarily with ErbB1 and ErbB4. Epiregulin has the broadest specificity of the EGF-like ligands but seems to preferentially activate heterodimeric receptor complexes (4). Epiregulin exhibits a variety of biological effects. It was originally shown to both inhibit growth of several epithelial tumor cells and stimulate growth of fibroblasts and other types of cells (1). Epiregulin expression is upregulated in a number of carcinoma cell lines. It has also been shown to be an autocrine growth factor in human epidermal keratinocytes (5). Epiregulin has also been shown to play a role in the early steps of pregnancy, regulating attachment of the blastocyst to the uterine epithelium during the implantation process (6).

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