Mouse Epigen Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1127G
100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Epigen in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse Epigen Leu53-Ala103 Accession # Q924X1.1
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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 Sheet (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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	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

Epigen is an eipthelial mitogen that belongs to the EGF superfamily (1). Mouse Epigen cDNA encodes a 153 amino acid (aa) residue type I transmembrane precursor protein with a 18 aa putative signal peptide, a 92 aa extracellular domain, a 20 aa transmembrane domain, and a 22 aa cytoplasmic domain. Expression of mouse Epigen has been detected in multiple tissues including testis, liver and heart. Over the entire protein, mouse Epigen shares from approximately 23-33% sequence homology with other EGF family members. The functional internal peptide containing the EGF motif however is more than 40% homologous with that of TGF-α and epiregulin. A human cDNA clone encoding a mouse epigen-like protein has also been identified (2). Similarly to other EGF family proteins, a soluble form of mouse Epigen can most likely be generated from the membrane-bound form by proteolytic cleavage. Although recombinant mouse Epigen has been shown to be mitogenic for fibroblasts (3) and epithelial cells (1), compared to EGF and TGF-α, it is much less potent. The EGF receptor ErbB1 can be activated upon mouse Epigen activation. Nevertheless, involvements of additional ErbB receptors in mouse Epigen signaling have not been ruled out.

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