

Product datasheet for **PP1126P2**

Egf Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, Neutralize, WB
Recommended Dilution:	Neutralization. ELISA: To detect mEGF by direct ELISA (using 100µl/well antibody solution) a concentration of at least 0.5 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2-0.4 ng/well of recombinant mEGF. Western Blot: To detect mEGF by Western Blot analysis this antibody can be used at a concentration of 0.1- 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant mEGF is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.
Reactivity:	Mouse
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Highly pure (>98%) recombinant mEGF
Specificity:	This antibody detects EGF.
Formulation:	PBS, pH 7.2 without preservatives State: Aff - Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore in sterile water to a concentration of 0.1-1.0 mg/ml.
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody prior to reconstitution at -20°C. Following reconstitution the antibody can be stored at 2-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	epidermal growth factor
Database Link:	Entrez Gene 13645 Mouse P01132



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Background:

Epidermal growth factor (EGF) has a profound effect on the differentiation of specific cells in vivo and is a potent mitogenic factor for a variety of cultured cells. The EGF precursor is believed to exist as a membrane bound molecule which is proteolytically cleaved to generate the 53 amino acid peptide hormone that stimulates cells to divide. EGF exerts its actions by binding to the EGFR, a 170 kDa protein.

Epidermal growth factor (EGF) is a key growth factor regulating cell survival. Through its binding to cell surface receptors, EGF activates an extensive network of signal transduction pathways that include activation of the PI3K/AKT, RAS/ERK and JAK/STAT pathways. Because of its key role in driving the proliferation of cells, EGFR is a target of several anti-cancer drugs currently in development.

Synonyms:

Urogastrone, Epidermal growth factor, URG, HOMG4