

Product datasheet for **AM32085SU-N**

Egf Mouse Monoclonal Antibody [Clone ID: F5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	F5
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Spot Blots. Immunohistochemistry on Fixed Frozen Sections: 1/20. Immunohistochemistry on Paraffin Sections of Salivary glands (see Protocols for more details.)
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	EGF coupled on BSA and tetanus toxoide
Specificity:	The antibody reacts with Mouse EGF in ELISA (10 ng detectable) and in Spot Blots (1 ng detectable). In Immunohistochemistry the antibody reacts with formalin fixed and paraffin embedded Mouse salivary glands. It also reacts with Human Brunner's glands (presumably with urogastron).
Formulation:	State: Supernatant State: Tissue Culture Supernatant Stabilizer: 1.0% BSA Preservative: 20 mM Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	epidermal growth factor



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Database Link: [Entrez Gene 13645 Mouse P01132](#)

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