

## Product datasheet for **AM09149BT-N**

### EGF Mouse Monoclonal Antibody [Clone ID: S-146]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	S-146
Applications:	ELISA
Recommended Dilution:	<b>ELISA:</b> This Biotin-conjugated monoclonal antibody can be used as a Tracer/Detection antibody in a Sandwich ELISA for Human EGF detection in combination with a Capture antibody (Cat.-No DM1012). <i>Suggested Capture Coating Dose:</i> 0.3 µg/well (Substrate: TMB). If the above suggested conditions are followed approximately 20 pg/ml of EGF in serum/plasma or 15 pg/mL of EGF in cell medium/urine can be detected with an assay range of 0-1000 pg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant human EGF, 6kDa, 53 amino acid residues
Specificity:	This monoclonal antibody reacts with natural and recombinant Human EGF. No cross-reactivity with other Human cytokines such as IL-1β, TGF-β1, IL-8, MCP-1, and SAA
Formulation:	0.01M PBS, pH 7.0 ± 0.1 Label: Biotin State: Liquid purified IgG fraction Stabilizer: 1% Gelatin Preservative: 0.09% Sodium Azide
Purification:	Affinity Chromatography on Protein G
Conjugation:	Biotin
Storage:	Store (in aliquots) at -20°C. 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 1950 Human P01133](#)

**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

**Protein Families:** Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transmembrane

**Protein Pathways:** Bladder cancer, Cytokine-cytokine receptor interaction, Endocytosis, Endometrial cancer, ErbB signaling pathway, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton