

Product datasheet for **AM09148PU-N**

EGF Mouse Monoclonal Antibody [Clone ID: S-145]

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | S-145 |
| Applications: | ELISA |
| Recommended Dilution: | ELISA. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Purified recombinant human EGF, 6kDa, 53 amino acid residues. |
| Specificity: | Reactive with natural and recombinant Human EGF. Does not cross react with other Human cytokines tested such as IL-1beta, IL-8, MCAF, TGF-beta and SAA |
| Formulation: | 0.01M PBS, pH 7.2 without preservatives. State: Aff - Purified State: Lyophilized purified Ig fraction. |
| Reconstitution Method: | Double distilled water is recommended to adjust the final concentration to 1.00 mg/ml. |
| Concentration: | lot specific |
| Purification: | Affinity Chromatography on Protein G. |
| Conjugation: | Unconjugated |
| Storage: | Store the antibody at -20°C. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: One year from despatch. |
| Gene Name: | epidermal growth factor |
| Database Link: | Entrez Gene 1950 Human P01133 |



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| Background: | <p>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.</p> <p>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.</p> |
| 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 |