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Product datasheet for AM09149PU-N

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	S-146
Applications:	ELISA, IF, WB
Recommended Dilution:	**ELISA:** The antibody can be used in Sandwich ELISA for EGF detection. The Matched antibody (Capture) is Clone S-134*Cat.-No* DM1012. **Western blot:** The antibody recognized recombinant EGF. **Immunocytochemistry.**
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: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with Double distillated water to adjust the final concentration to 1.0 mg/ml.
Concentration:	1.0 mg/ml (after reconstitution)
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Upon receipt, store (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	Homo sapiens epidermal growth factor (EGF), transcript variant 1
Database Link:	Entrez Gene 1950 Human P01133

View online »

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.

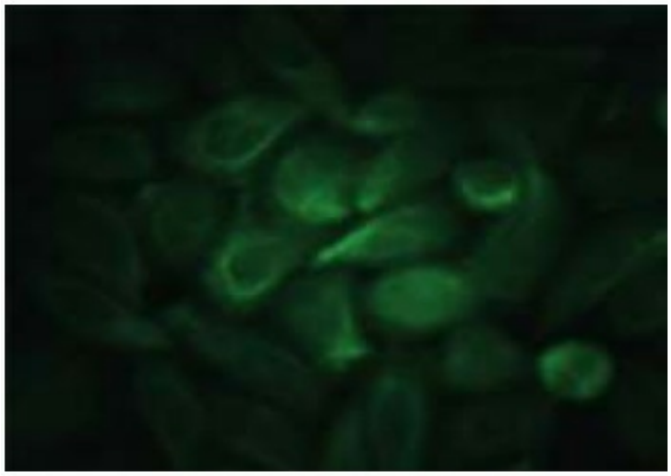
Synonyms: Urogastrone, Epidermal growth factor, URG, HOMG4

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

Product images:

The antibody recognized recombinant EGF on western blot.



Staining of methanol-fixed Hela cells by Immunocytochemistry using Human EGF Antibody (Clone S-146) at 1/100 (10 ug/ml).