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Product datasheet for DM3542P

Egf Rat Monoclonal Antibody [Clone ID: 2M13]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2M13
Applications:	WB
Recommended Dilution:	Western Blot: 1/500 - 1/1000.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2
Clonality:	Monoclonal
Immunogen:	Recombinant EGF
Specificity:	This antibody detects EGF.
Formulation:	State: Purified State: Lyophilized purified Ig
Reconstitution Method:	Restore with 200µl sterile PBS and the final concentration is 500µg/ml.
Purification:	Protein A/G affinity chromatography
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at -70°C. Following reconstitution store the antibody (in aliquots) at -20°C for 6 month. 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