

MBNL1 Monoclonal Antibody

Catalog NumberMA1-10038

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Mouse / IgG1, kappa	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody		
Immunogen	Recombinant human Muscleblind protein		
Conjugate	Unconjugated	Immunohistochemistry (IHC)	1:1,000
Form	Liquid	Western Blot (WB)	1:1,000-1:5,000
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.	Immunocytochemistry (ICC/IF)	1:1,000
		* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	

Background/Target Information

EGFR (Epidermal growth factor receptor, HER1, ErbB1) is encoded by the EGFR gene located on chromosome 7 in humans. EGFR belongs to the HER /ErbB family of proteins that includes three other receptor tyrosine kinases, ERbB2, ERbB3, ERbB4. EGFR is a transmembrane receptor and binding of its cognate ligands such as EGF (Epidermal Growth Factor) and TGF alpha (Transforming Growth Factor alpha) to the extracellular domain leads to EGFR dimerization followed by autophosphorylation of the tyrosine residues in the cytoplasmic domain. Phosphorylation of EGFR at certain residues is also mediated by Src-non-receptor kinase. EGFR activation signals multiple downstream signaling cascades such as the Ras - ERK, PI3-K - Akt, Jak - STAT and PKC pathways that help in growth and proliferation of cells. Phosphorylation of EGFR at Y1086 specifically allows binding of the adaptor protein GRB2, leading to activation of the MAPK pathway. Upon receptor activation and signaling, EGFR is endocytosed and targeted for degradation or recycling. Mutations in the EGFR gene are associated with lung cancer and multiple alternatively spliced transcript variants encode different protein isoforms of EGFR have been found. Increased production or activation of EGFR has been associated with poor prognosis in a variety of tumors. Moreover, EGFR overexpression is observed in tumors of the head and neck, brain, bladder, stomach, breast, lung, endometrium, cervix, vulva, ovary, esophagus, stomach and in squamous cell carcinoma.

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