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Product datasheet for AM06175SU-N

IGF1 Receptor (IGF1R) Mouse Monoclonal Antibody [Clone ID: 3C8B1]

Product data:

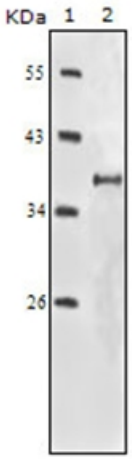
Product Type:	Primary Antibodies
Clone Name:	3C8B1
Applications:	IHC, WB
Recommended Dilution:	**ELISA:** 1/10000. **Western Bloting:** 1/500 - 1/2000. **Immunohistochemistry on Paraffin Sections:** 1/200 - 1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of IGF1R expressed in E. Coli.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	insulin like growth factor 1 receptor
Database Link:	Entrez Gene 3480 Human P08069

View online »

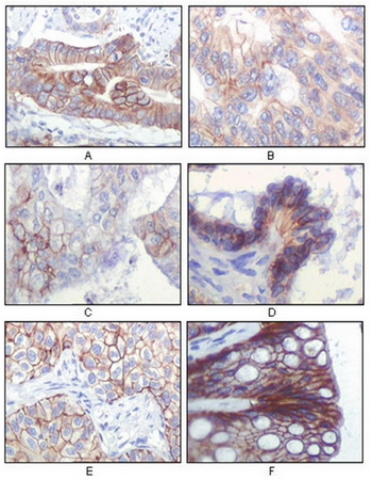
Background: IGF1R (insulin-like growth factor 1 receptor), a transmembrane receptor tyrosine kinase, is widely expressed in many cell types within fetal and postnatal tissues, and in many cell lines. Upon binding to its ligands, IGF-I and IGF-II, receptor autophosphorylation occurs. The triple tyrosine cluster within the kinase domain (Tyr1131, Tyr1135 and Tyr1136) is the earliest major site of autophosphorylation. Phosphorylation of these three tyrosine residues is necessary for kinase activation.Insulin receptors (IRs) share significant similarity with IGF1 receptors in both structure and function,including an equivalent triple tyrosine cluster within the activation loop of the kinase domain (Tyr1146, Tyr1150 and Tyr1151).Tyrosine autophosphorylation of insulin receptor is one of the earliest cellular responses to insulin stimulation. Autophosphorylation begins with phosphorylation of Tyr1146 and either Tyr1150 or Tyr1151. Full kinase activation requires the triple tyrosine phosphorylation.

Synonyms: IGF-I receptor, IGF1 Receptor

Product images:



Western blot analysis using IGF1R antibody Cat.-No AM06175SU-N against truncated IGF1R recombinant protein.



Immunohistochemical analysis of paraffin-embedded human gastric adenocarcinoma (A), colon adenocarcinoma (B), endometrial carcinoma (uterus) (C), ovary adenocarcinoma (D), lung squamous cell carcinoma (E), stomach epithelium mucosae (F), showing membrane localization using IGF1R antibody Cat.-No AM06175SU-N with DAB staining.