# IGF1R Mouse Monoclonal Antibody

E10-20149

**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.

**Catalog Number:** E10-20149

**Amount:** 100µg/100µl

**Clone Number:** 3G5C1

**Species:** Mouse IgG2a

**Aliases:** IGF1R

**Entrez Gene:** 3480

**Immunogen:** Purified recombinant fragment of IGF1R expressed in E. Coli.

**Storage:** Store at 4 Store at -20°C for storage,

**Formulation:** Ascitic fluid containing 0.03% sodium azide.

**Species Reactivities:** Human

**Tested Applications:** WB, IHC,ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

**Application notes:** WB.1/500 - 1/2000,IHC.1/200 - 1/1000. ELISA. Propose dilution 1/10000.

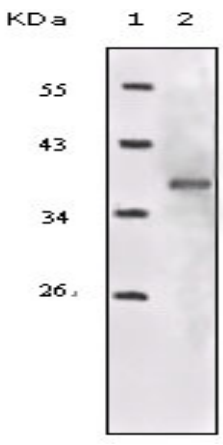


Figure 1. Western blot analysis using IGF1R mouse mAb against truncated IGF1R recombinant protein.

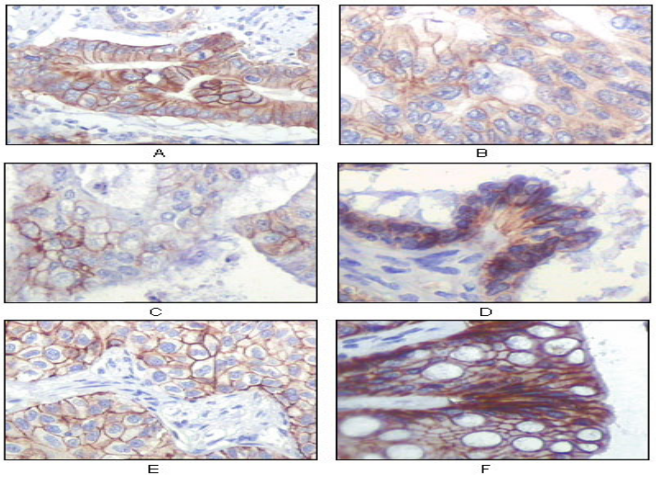


Figure 2. Immunohistochemical analysis of paraffin-embedded human gastric adenocarcinoma(A), golon adenocarcinoma (B), endometrial carcinoma (uterus) (C), ovary adenocarcinoma (D), lung squamous cell carcinoma (E), stomach epithelium mucosae (F), showing membrane localization using IGF1R mouse mAb with DAB staining.

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