Category: Monoclonal Antibodies
Product Name: Mouse Monoclonal Antibody to IGF1R

Catalog Number: MAB-606020149

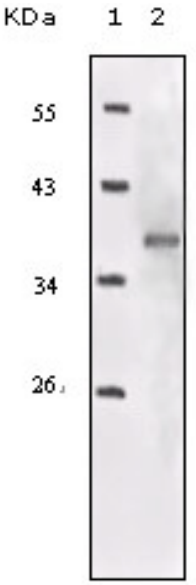

Figure 1: Western blot analysis using IGF1R mouse mAb against truncated IGF1R recombinant protein.

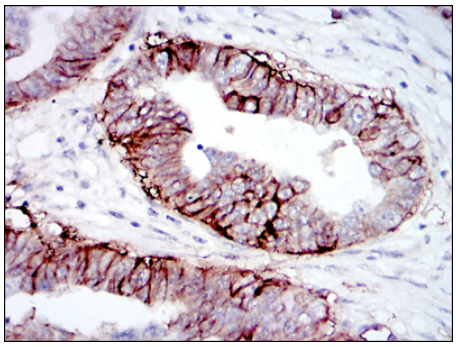

Figure 2: Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using IGF1R mouse mAb with DAB staining.

Lot#:
Clone#: 3G5C1
Host and isotype: Mouse IgG2a
Size: 0.1ml
MW:
Aliases: IGF1R
Entrez Gene: 3480
Species reactivity: Human

Description 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.

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

Application Western Bloting: 1/500 - 1/2000.
Immunohistochemistry: 1/200 - 1/1000.
ELISA: Propose dilution 1/10000.
Not yet tested in other applications.

Formulation Ascitic fluid containing 0.03% sodium azide.

Storage Store at 4iæ, for long term storage, store at -20iæ.

Related product

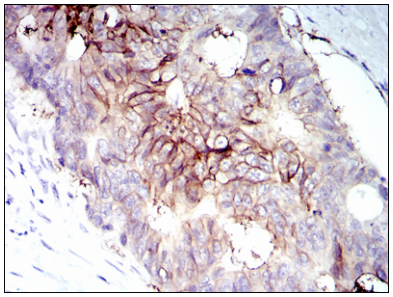

Figure 3: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using IGF1R mouse mAb with DAB staining.

References

1. Zhu Z. Jiang W. Thompson HJ. Carcinogenesis. 2003, Jul, 24(7):1225-31. Epub 2003 May 9.
2. Ling Y. Maile LA. Clemmons DR. Mol Endocrinol. 2003, Sep,17(9):1824-33. Epub 2003 Jun 5.

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