

# Monoclonal Antibody to IGF1R

Cat. #: Mab-607077

## 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

Ni-NTA purified truncated recombinant IGF1R-His expressed in E. Coli strain BL21 (DE3)

## Applications

Western Blot: 1: 500- 1: 2,000

IHC(P): 1: 500- 1: 2,000

IHC(F): 1: 500- 1: 2,000

ELISA: Propose dilution 1: 10,000.

Determining optimal working dilutions by titration test.

## Formulation

Crude ascites.

## References

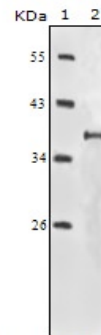
1. Adams, T.E. et al. Cell. Mol. Life Sci. 2000 57, 1050-1093.
2. Baserga, R. et al. Oncogene 2000 19, 5574-5581.
3. Scheidegger, K.J. et al. J. Biol. Chem. 2000 275, 38921-38928. .

Clone Number:3C8B1

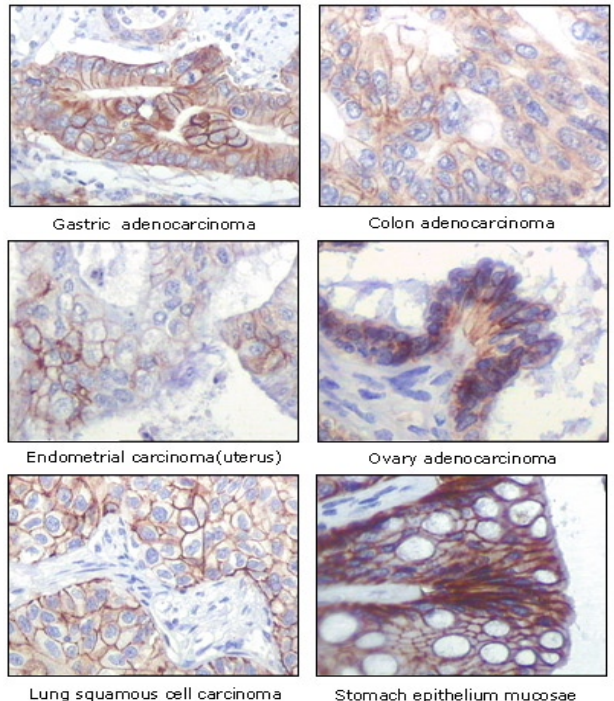
Isotype:IgG2b

Species: Human

Storage and Stability: stored at -20 C



**Figure 1:** Western blot analysis using IGF1R monoclonal antibody against truncated IGF1R recombinant protein.



**Figure 2:** Immunohistochemical analysis of paraffin-embedded human normal and tumor tissue, showing membrane location using IGF1R antibody with DAB staining