



# IGF-IR (phospho Tyr1165/Y1166) Monoclonal Antibody

Catalog No	BYmab-12981
Isotype	IgG
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB
Gene Name	IGF1R
Protein Name	Insulin-like growth factor 1 receptor
Immunogen	The antiserum was produced against synthesized peptide derived from human IGF1R around the phosphorylation site of Tyr1165/Tyr1166. AA range:1131-1180
Specificity	Phospho-IGF-IR (Y1165/Y1166) Monoclonal Antibody detects endogenous levels of IGF-IR protein only when phosphorylated at Y1165/Y1166.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	IGF1R; Insulin-like growth factor 1 receptor; Insulin-like growth factor I receptor; IGF-I receptor; CD antigen CD221
Observed Band	pro: 155kD      recet/ beta: 95kD
Cell Pathway	Cell membrane ; Single-pass type I membrane protein .
Tissue Specificity	Found as a hybrid receptor with INSR in muscle, heart, kidney, adipose tissue, skeletal muscle, hepatoma, fibroblasts, spleen and placenta (at protein level). Expressed in a variety of tissues. Overexpressed in tumors, including melanomas, cancers of the colon, pancreas prostate and kidney.
Function	catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.;disease:Defects in IGF1R may be a cause in some cases of resistance to insulin-like growth factor 1 (IGF1 resistance) [MIM:270450]. IGF1 resistance is a growth deficiency disorder characterized by intrauterine growth retardation and poor postnatal growth accompanied with increased plasma IGF1.;enzyme regulation:Autophosphorylation activates the kinase

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activity.,function:This receptor binds insulin-like growth factor 1 (IGF1) with a high affinity and IGF2 with a lower affinity. It has a tyrosine-protein kinase activity, which is necessary for the activation of the IGF1-stimulated downstream signaling cascade. When present in a hybrid receptor with INSR, binds IGF1. PubMed:12138094 shows that hybrid receptors composed of IGF1R and INSR isoform Long are activated with a high affinity by IGF1, with low a

#### Background

This receptor binds insulin-like growth factor with a high affinity. It has tyrosine kinase activity. The insulin-like growth factor I receptor plays a critical role in transformation events. Cleavage of the precursor generates alpha and beta subunits. It is highly overexpressed in most malignant tissues where it functions as an anti-apoptotic agent by enhancing cell survival. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2014],

#### matters needing attention

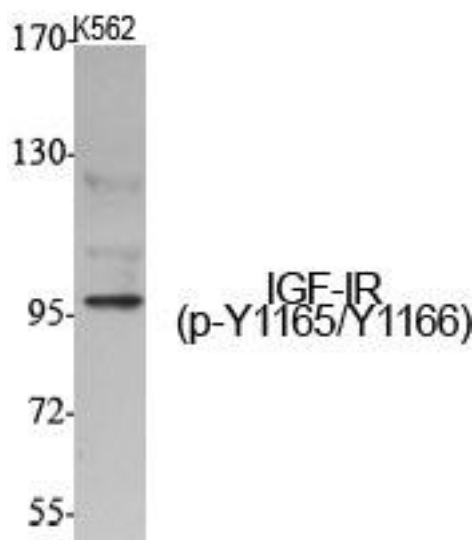
Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images

(kD)



Western Blot analysis of various cells using IGF-IR (phospho Tyr1165/Y1166) Monoclonal Antibody

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