

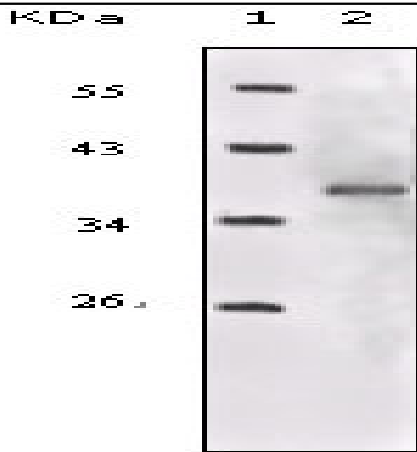
## IGF-IR Monoclonal Antibody

<b>Catalog No :</b>	YM0357
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	IGF-1R
<b>Fields :</b>	>>EGFR tyrosine kinase inhibitor resistance;>>Endocrine resistance;>>MAPK signaling pathway;>>Ras signaling pathway;>>Rap1 signaling pathway;>>HIF-1 signaling pathway;>>FoxO signaling pathway;>>Oocyte meiosis;>>Autophagy - animal;>>Endocytosis;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Longevity regulating pathway;>>Longevity regulating pathway - multiple species;>>Focal adhesion;>>Adherens junction;>>Signaling pathways regulating pluripotency of stem cells;>>Long-term depression;>>Ovarian steroidogenesis;>>Progesterone-mediated oocyte maturation;>>Pathways in cancer;>>Transcriptional misregulation in cancer;>>Proteoglycans in cancer;>>Glioma;>>Prostate cancer;>>Melanoma;>>Breast cancer;>>Hepatocellular carcinoma
<b>Gene Name :</b>	IGF1R
<b>Protein Name :</b>	Insulin-like growth factor 1 receptor
<b>Human Gene Id :</b>	3480
<b>Human Swiss Prot No :</b>	P08069
<b>Mouse Swiss Prot No :</b>	Q60751
<b>Immunogen :</b>	Purified recombinant fragment of IGF-IR expressed in E. Coli.
<b>Specificity :</b>	IGF-IR Monoclonal Antibody detects endogenous levels of IGF-IR protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200

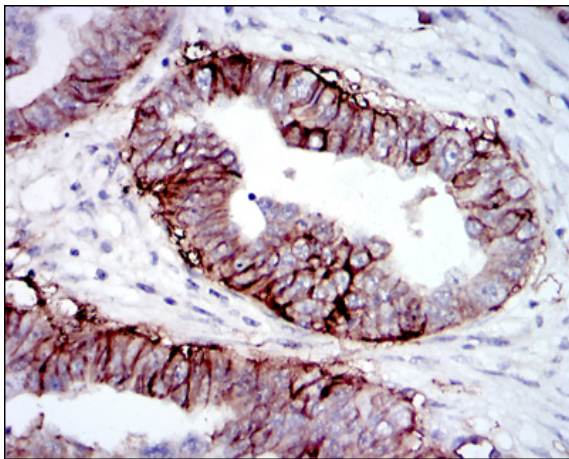
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	pro: 155kD, recetor beta: 95kD
<b>Cell Pathway :</b>	Oocyte meiosis;Endocytosis;Focal adhesion;Adherens Junction;Long-term depression;Progesterone-mediated oocyte maturation;Pathways in cancer;Colorectal cancer;Glioma;Prostate cancer;Melanoma;
<b>P References :</b>	<ol style="list-style-type: none"><li>1. Zhu Z. Jiang W. Thompson HJ. Carcinogenesis. 2003, Jul, 24(7):1225-31. Epub 2003 May 9.</li><li>2. Ling Y. Maile LA. Clemmons DR. Mol Endocrinol. 2003, Sep,17(9):1824-33. Epub 2003 Jun 5.</li></ol>
<b>Background :</b>	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],
<b>Function :</b>	<p>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 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</p>
<b>Subcellular Location :</b>	Cell membrane ; Single-pass type I membrane protein .
<b>Expression :</b>	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.

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**Products Images**



Western Blot analysis using IGF-IR Monoclonal Antibody against truncated IGF-IR recombinant protein.



Immunohistochemistry analysis of paraffin-embedded ovarian cancer tissues using IGF-IR Monoclonal Antibody with DAB staining.