

**IGF-2 (ABT196R) rabbit mAb (Ready to Use)**

<b>Catalog No :</b>	YM7140R
<b>Reactivity :</b>	Human;
<b>Applications :</b>	IHC
<b>Target :</b>	IGF-2
<b>Fields :</b>	>>MAPK signaling pathway;>>Ras signaling pathway;>>PI3K-Akt signaling pathway;>>Pathways in cancer;>>Proteoglycans in cancer;>>Hepatocellular carcinoma
<b>Gene Name :</b>	IGF2
<b>Protein Name :</b>	Insulin-like growth factor II (IGF-II) (Somatomedin-A) [Cleaved into: Insulin-like growth factor II; Insulin-like growth factor II Ala-25 Del; Preptin]
<b>Human Gene Id :</b>	3481
<b>Human Swiss Prot No :</b>	P01344
<b>Immunogen :</b>	Synthesized peptide derived from human IGF-2 AA range:1-100
<b>Specificity :</b>	This antibody detects endogenous levels of IGF-2
<b>Formulation :</b>	The prediluted ready-to-use antibody is diluted in phosphate buffer saline containing stabilizing protein and 0.05% Proclin 300
<b>Source :</b>	Monoclonal, Rabbit IgG1, Kappa
<b>Dilution :</b>	Ready to use for IHC
<b>Purification :</b>	Recombinant Expression and Affinity purified
<b>Storage Stability :</b>	2°C to 8°C/1 year
<b>Background :</b>	This gene encodes a member of the insulin family of polypeptide growth factors, which are involved in development and growth. It is an imprinted gene, expressed

only from the paternal allele, and epigenetic changes at this locus are associated with Wilms tumour, Beckwith-Wiedemann syndrome, rhabdomyosarcoma, and Silver-Russell syndrome. A read-through INS-IGF2 gene exists, whose 5' region overlaps the INS gene and the 3' region overlaps this gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2010],

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**Function :**

disease:Defects in INS are the cause of familial hyperproinsulinemia [MIM:176730].,function:Insulin decreases blood glucose concentration. It increases cell permeability to monosaccharides, amino acids and fatty acids. It accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver.,function:Preptin undergoes glucose-mediated co-secretion with insulin, and acts as physiological amplifier of glucose-mediated insulin secretion. Exhibits osteogenic properties by increasing osteoblast mitogenic activity through phosphoactivation of MAPK1 and MAPK3.,function:The insulin-like growth factors possess growth-promoting activity. In vitro, they are potent mitogens for cultured cells. IGF-II is influenced by placental lactogen and may play a role in fetal development.,mass spectrometry: PubMed:12586351; PubMed:15359740,online information:Clinical information on Eli Lilly insu

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**Subcellular Location :**

Cytoplasmic

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**Expression :**

Expressed in heart, placenta, lung, liver, muscle, kidney, tongue, limb, eye and pancreas.

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## Products Images