



MOUSE ANTI-INSULIN-LIKE GROWTH FACTOR-1 RECEPTOR MONOCLONAL ANTIBODY

CATALOG NUMBER:	MAB1120
LOT NUMBER:	
QUANTITY:	100 µg
SPECIFICITY:	Recognizes the α -subunit of type I Insulin-like Growth Factor Receptor (IGF-1R). It shows no cross-reaction with insulin receptor. Its epitope localizes between a.a. 283-440 (exon 4-6) of IGF-1R. Both IGF-1R and insulin receptor are synthesized as a single polypeptide which is glycosylated and proteolytically cleaved to give the α - and β -subunits, which are disulfide-linked in a β - α - α - β configuration in the mature receptor. The α -subunit is completely extracellular, while the β -subunit spans the membrane and the intracellular portion has intrinsic tyrosine kinase activity. It is assumed that, as for the insulin receptor, the tyrosine kinase activity is essential for IGF-1 action.
IMMUNOGEN:	IGF-1R/3T3 mouse fibroblasts transfected with human type I IGF-receptor cDNA.
ISOTYPE:	IgG ₁
CLONE NAME:	24-31
APPLICATIONS:	Acts as a Weak IGF-like Agonist in Bioassays (Thymidine incorporation into DNA) Immunoprecipitation (Use Protein G): 2µg antibody/mg protein lysate. Immunohistochemistry (Frozen and formalin/paraffin): Use antibody at 2-4ug/mL for 30 min. at room temperature. Staining of formalin-fixed tissues requires boiling tissue sections in 1 mM EDTA, pH 8.0, for 10-20 min. followed by cooling at room temperature for 20 minutes. Please note that EDTA is better than citrate for epitope unmasking. Optimal working dilutions must be determined by end user.
SPECIES REACTIVITIES:	Human. Weakly reacts with Rabbit. Does not react with rat. Pig unknown.
FORMAT:	200 µg/ml of antibody purified from ascites fluid by Protein G chromatography.
PRESENTATION:	Liquid in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide.
STORAGE/HANDLING:	Maintain refrigerated at 2-8°C in undiluted aliquots for up to 12 months.



REFERENCES:

1. Soos MA, *et al.* Journal of Biological Chemistry, 1992, 267(18):12955-63.
2. Schumacher R, *et al.* Journal of Biological Chemistry, 1993, 268(2):1087-94.
3. Takahashi *et al.* Brit J Cancer, 1995, 72:813-7.
4. Soos MA, *et al.* Biochemical Journal, 1993, 290:419-26.
5. Soos MA, *et al.* Advances in Experimental Medicine and Biology, 1993, 343:145-57.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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