# Mouse anti-Insulin Receptor Monoclonal Antibody

**Synonym: human insulin receptor; IR-1**

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|---|---|
| Catalogue#: | 500-5844 |
| Size: | 100 ug/200 ul |
| Host: | Mouse |
| Clone: | SPM258 |
| Isotyping: | IgG1.κ |
| Application: | ELISA, WB, IP, IHC |
| Reactivity: | Hu, |

## ANTIGEN PREPARATION

Highly purified human placental Insulin Receptor.

## BACKGROUND

The human insulin receptor is a heterotetrametric membrane glycoprotein consisting of disulfide-linked subunits in a β-α-α-β Configuration. The beta-subunit (95kDa) possesses a single transmembrane domain, whereas the alpha subunit (135kDa) is completely extracellular.

## PURIFICATION

The Mouse IgG is purified according to Isotyping by Protein A Chromatography from ascites fluid.

## FORMULATION

This affinity purified antibody is supplied in sterile Phosphate-buffered saline (pH7.2) containing antibody stabilizer

## SPECIFICITY

This antibody recognizes human Insulin Receptor protein. The other species was not tested.

## STORAGE

The antibodies are stable for 12 months from date of receipt when stored at –20°C to –70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

## APPLICATIONS/SUGGESTED WORKING DILUTIONS

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|---|---|
| Western Blot | 0.1-1 µg/ml |
| ELISA | 0.01-0.1 µg/ml |
| Immunoprecipitation | 2-5 µg/ml |
| IHC | 2-5 µg/ml |
| Flow cytometry | Not tested |

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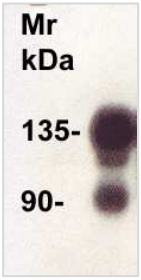
|---|---|
| **MOLECULAR WEIGHT:** | ~135 kDa |
| **POSITIVE CONTROL:** | Human placenta and IM-9 cells |
| **CELLULAR LOCATION:** | Membrane |

Optimal dilutions should be determined by researchers for the specific applications.

## DATA ATTACHMENTS




**WB:** The cell lysate derived from Human IM-9 lymphocytes (5 mg/ml) was immunoprecipitated by Mouse anti IR-1 (Cat# 500-5844) at 10 µg/ml. A major band around ~135 kDa is observed.

## REFERENCES

**Kull FC, et al.** Monoclonal antibodies to receptors for insulin and somatomedin-C. J Biol Chem. 1983 May 25;258(10):6561-6.

**FOR RESEARCH USE ONLY.**

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