

## Anti-hINSR [IR 83-22] Standard Size Ab01281-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human IgG1, Fc Silent™, Kappa

**Clone Number:** IR 83-22

**Alternative Name(s) of Target:** CD220; human insulin receptor; insulin receptor; HHF5; IR; 83 22

**UniProt Accession Number of Target Protein:** P06213

**Published Application(s):** IB, inhibitory, IP

**Published Species Reactivity:** Human

**Immunogen:** This antibody was raised by immunising BALB/c mice with IM-9 lymphocytes, and boosting with purified human placental insulin receptor prior to fusion.

**Specificity:** This antibody is specific for human INSR, reacting with an epitope in the alpha subunit (amino acids 485-592). It does not cross-react with rabbit, rat or mouse insulin receptors, and displays very weak cross-reactivity with bovine, porcine and ovine receptors.

**Application Notes:** This antibody has been used in immunoprecipitation assays, with both radiolabelled hINSR and hINSR-radiolabelled insulin complexes (Soos et al, 1986). It has also been used in immunoblot analysis with purified hINSR (Soos et al, 1986), revealing that it binds to the receptor's alpha subunit. This antibody has been shown to cause >80% inhibition of insulin binding to IM-9 cells (Soos et al, 1986), and behaves as a surrogate agonist.

**Antibody First Published in:** Soos et al. Monoclonal antibodies reacting with multiple epitopes on the human insulin receptor. Biochem J. 1986 Apr 1; 235(1): 199-208. [PMID:2427071](#)

**Note on publication:** Describes the original generation of this antibody, and the characterisation of its specificity.

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:**

PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.