



**Polyclonal Anti- Insulin-like growth factor 1, IGF-1 (Sepharose Bead Conjugate)**

**Catalogue No.** PA1374-S

**Lot No.** 0131112117427

**Ig type:** rabbit IgG

**Size:** 100µg/vial

**Specificity**

Human, rat. No cross reactivity with other proteins.

**Recommended application**

*(Immunoprecipitation(IP))*

**Immunogen**

A synthetic peptide corresponding to a sequence at the middle region of human IGF-1 (80-96 aa), different from the mouse and rat sequence by one amino acid.

**Purification**

Immunogen affinity purified.

**Formulation**

50% slurry in PBS pH 7.2 with 0.01mg NaN<sub>3</sub> preservative.

**Storage**

Store at 4°C for frequent use.

**Description:**

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

**BACKGROUND**

Insulin-like growth factor 1 (IGF-1) also known as somatomedin C or mechano growth factor is a protein that in humans is encoded by the IGF1 gene. IGF-1 is a hormone similar in molecular structure to insulin. It plays an important role in childhood growth and continues to have anabolic effects in adults. A synthetic analog of IGF-1, mecasermin is used for the treatment of growth failure. IGF-1 consists of 70 amino acids in a single chain with three intramolecular disulfide bridges. IGF-1 has a molecular weight of 7649 daltons. Justice et al. (1990) placed the mouse IGF1 gene on chromosome 10.

**REFERENCE**

1. Höppener JW, de Pagter-Holthuisen P, Geurts van Kessel AH, Jansen M, Kittur SD, Antonarakis SE, Lips CJ, Sussenbach JS (1985). "The human gene encoding insulin-like growth factor I is located on chromosome 12". Hum. Genet. 69 (2): 157–60.
2. Jansen M, van Schaik FM, Ricker AT, Bullock B, Woods DE, Gabbay KH, Nussbaum AL, Sussenbach JS, Van den Brande JL (1983). "Sequence of cDNA encoding human insulin-like growth factor I precursor". Nature 306 (5943): 609–11.

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