Product information

Monoclonal anti-human IGF1 antibody (clone AT6F8)

Mouse IgG_{2b}, κ

Cat. No. IBATGA0311

Immunogen: Recombinant human IGF1 (49-118aa) purified from *E. coli*

NCBI Accession No.: NP_000609

Isotype: Mouse IgG_{2b} heavy chain and κ light chain

Clone: Anti-human IGF1 mAb, clone AT6F8, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human IGF1 protein.

Description: Insulin-like growth factor 1(IGF-1), also called somatomedin C, is a protein that in humans is encoded by the IGF1 gene. IGF-1 has also been referred to as a "sulfation factor" and its effects were termed "nonsuppressible insulin-like activity" (NSILA) in the 1970s. 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 7,649 daltons.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:1000.

Application: ELISA, WB

Manufactured for:
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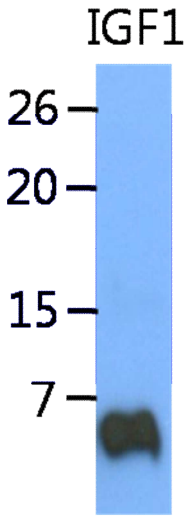
Western blot analysis

The human IGF1 recombinant protein (12.5ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human IGF1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



General references: Hoppener J.W., *et al.* (1985) *Hum Genet* **69(2):** 157-160

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