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## AM50117PU-T Monoclonal Antibody to Insulin-like growth factor I / IGF1 -

**Purified** 

Alternate names: IBP1, IGF-I, MGF, Mechano growth factor, Somatomedin-C

Quantity:  $20 \mu g$  Concentration: 0.2 mg/ml

Background: IGF-1 is a polypeptide growth factor with two isoforms that are produced by alternative

splicing. Isoform 1 is also known as IGF-IB while isoform 2 is known as IGF-IA. IGF-1 stimulates the proliferation of a wide range of cell types including muscle, bone and cartilage tissue. It functions as an autocrine regulator of growth. Activation of IGF system has emerged as a key factor for tumor progression and resistance to

apoptosis in many cancers like those of breast, thyroid and colon

Uniprot ID: P05019

NCBI: NP 000609.1

GenelD: <u>3479</u>

Host / Isotype: Mouse / IgG1

Recommended Isotype

**Controls:** 

SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N

Clone: SPM406

**Immunogen:** Purified Human IGF-1 protein.

Genename: IGF1

Format: State: Liquid purified IgG fraction from Bioreactor Concentrate

Purification: Protein A/G Chromatography

Buffer System: 10mM PBS

Preservatives: 0.05% Sodium Azide

Stabilizers: 0.05% BSA

**Applications: ELISA:** Use Antibody without BSA for Coating.

Flow Cytometry:  $0.5-1 \mu g/10^6$  cells. Immunofluorescence:  $1-2 \mu g/ml$ . Western Blot:  $0.5-1 \mu g/ml$ .

**Immunoprecipitation:** 1-2 μg/500 μg protein lysate.

Immunohistochemistry on Formalin-Fixed Paraffin Sections: 0.5-1 µg/ml for

30 minutes at RT.

Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate

buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.

**In-vitro Neutralization of Biological Activity** of IGF-1 (Use Azide Free Antibody). *Positive Control*: Pancreas or brain. Breast, Thyroid or Colon Cancers; IGF-1

recombinant protein.

Other applications not tested. Optimal dilutions are dependent on conditions and

should be determined by the user.



## AM50117PU-T: Monoclonal Antibody to Insulin-like growth factor I / IGF1 - Purified

Molecular Weight: ~7.6kDa

Specificity: This antibody is specific to Insulin-like Growth Factor (IGF-1) and shows minimal cross-

reaction with IGF-11, Proinsulin, MSF, and Insulin. *Cellular Localization*: Cytoplasmic (Secreted).

Species: Human, Mouse, Rat, Rabbit.

Other species not tested.

**Storage:** Store undiluted at 2-8°C.

Shelf life: one year from despatch.

General Readings: 1. Rotwein P, Pollock KM, Didier DK, Krivi GG. Organization and sequence of the

human insulin-like growth factor I gene. Alternative RNA processing produces two

insulin-like growth factor I precursor peptides. J Biol Chem. 1986 Apr

15;261(11):4828-32. PubMed PMID: 2937782.

2. Sandberg-Nordqvist AC, Ståhlbom PA, Reinecke M, Collins VP, von Holst H, Sara V. Characterization of insulin-like growth factor 1 in human primary brain tumors. Cancer

Res. 1993 Jun 1;53(11):2475-8. PubMed PMID: 8495408.

3. Zheng WH, et. al. (2000) J. Neural. Transm. Suppl. 2000: 261-272.