

## Product datasheet for **AM50117PU-S**

### IGF1 Mouse Monoclonal Antibody [Clone ID: SPM406]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	SPM406
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	<b>ELISA:</b> Use Antibody without BSA for Coating. <b>Flow Cytometry:</b> 0.5-1 µg/10 <sup>6</sup> cells. <b>Immunofluorescence:</b> 1-2 µg/ml. <b>Western Blot:</b> 0.5-1 µg/ml. <b>Immunoprecipitation:</b> 1-2 µg/500 µg protein lysate. <b>Immunohistochemistry on Formalin-Fixed Paraffin Sections:</b> 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. <b>In-vitro Neutralization of Biological Activity</b> of IGF-1 (Use Azide Free Antibody). <b>Positive Control:</b> Pancreas or brain. Breast, Thyroid or Colon Cancers; IGF-1 recombinant protein.
Reactivity:	Human, Mouse, Rabbit, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified Human IGF-1 protein.
Specificity:	This antibody is specific to Insulin-like Growth Factor (IGF-1) and shows minimal cross-reaction with IGF-11, Proinsulin, MSF, and Insulin. <b>Cellular Localization:</b> Cytoplasmic (Secreted).
Formulation:	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein A/G Chromatography



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<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store undiluted at 2-8°C.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Predicted Protein Size:</b>	~7.6 kDa
<b>Gene Name:</b>	insulin like growth factor 1
<b>Database Link:</b>	<a href="#">Entrez Gene 3479 Human P05019</a>
<b>Background:</b>	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
<b>Synonyms:</b>	IGF-I, Somatomedin-C, Mechano growth factor, MGF, IBP1