



# Anti-Mouse IGF-1

20150223ML



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>103-P08G</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of goats pre-immunized with highly pure (98%) recombinant murine IGF-I. Anti-murine IGF-I specific antibody was purified by affinity chromatography employing immobilized murine IGF-I matrix.

## Target Background

<b>Synonyms (Target):</b>	Igf1; Igf-1; Igf-I; C730016P09Rik
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Insulin-like growth factor (IGF)-I (also known as somatomedin C and somatomedin A) and IGF-II (multiplication stimulating activity or MSA) belong to the family of insulin-like growth factors that are structurally homologous to proinsulin. Mature IGF-I and IGF-II share approximately 70% sequence identity. Both IGF-I and IGF-II are expressed in many tissues and cell types and may have autocrine, paracrine and endocrine functions. Mature IGF-I and IGF-II are highly conserved between the human, bovine and porcine proteins (100% identity), and exhibit cross-species activity.

### Database References Target

<b>Protein RefSeq:</b>	NP_034642.2
<b>Uniprot ID:</b>	P05017
<b>mRNA RefSeq:</b>	NM_010512

## Product Specifications

<b>Species reactivity</b>	Mouse
<b>Clone/Ab feature</b>	Goat IgG
<b>Cross reactivity</b>	Mouse
<b>Host</b>	Goat
<b>Clonality</b>	Polyclonal Antibody
<b>Purification</b>	Antigen-affinity purified
<b>Immunogen</b>	Recombinant Mouse IgGF-1
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

**Reconstitution:** Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

**Neutralisation:** To yield one-half maximal inhibition [ND<sub>50</sub>] of the biological activity of Murine IGF-1 (200.0 ng/ml), a concentration of 12.0 – 14.0 µg/ml of this antibody is required.

**Western Blot:** To detect mIGF-1 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant mIGF-1 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

**Sandwich ELISA:** To detect mIGF-1 by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with an appropriate secondary conjugated antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant mIGF-1.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**