



BMA BIOMEDICALS



Peninsula Laboratories

Guinea pig anti Insulin

Insulin is a 51-amino acid peptide hormone produced by beta cells of the pancreatic islets. It is a combination of two peptide chains named A-chain (21-amino acids) and B-chain (30-amino acids), which are linked by two disulfide bonds. Insulin regulates the metabolism of carbohydrates by promoting the absorption of glucose from the blood into liver. It is also involved in the protein synthesis of skeletal muscle as well as fat tissue through the tyrosine kinase receptor pathway.

This antibody was generated by immunization of guinea pigs with Insulin coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-5013 (Lot 022051-4)
Clonality:	Polyclonal
Host species:	Guinea pig
Reactivity:	Human
Quantity:	1.0 ml
Format:	Diluted antiserum, lyophilized. This stock solution contains 0.1M sodium phosphate buffer (pH 7.4), 0.05M NaCl, 0.1% BSA, 0.01% NaN ₃ , and 0.1% Triton X-100. Reconstitute by adding 1.0 ml of distilled water.
Stability and Storage:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Immunogen:	Synthetic peptide A-chain: Gly-Ile-Val-Glu-Gln-Cys-Cys-Thr-Ser-Ile-Cys-Ser-Leu-Tyr-Gln-Leu-Glu-Asn-Tyr-Cys-Asn; B-chain: Phe-Val-Asn-Gln-His-Leu-Cys-Gly-Ser-His-Leu-Val-Glu-Ala-Leu-Tyr-Leu-Val-Cys-Gly-Glu-Glu-Arg-Gly-Phe-Phe-Tyr-Pro-Lys-Thr (Disulfide bonds between Cys7 and Cys7/Cys20 and Cys19), coupled to carrier protein.
Protein database:	<u>human-P01308</u>

Cross-Reactivity:

PEPTIDE	%
Insulin (human)	100
Proinsulin (human)	46
Amylin (free acid) (human)	0
Amylin (rat)	0
Amylin (human)	0
C-Peptide (human)	0
rec EGF (human)	0
Glucagon (1-29) (human, bovine, porcine)	0
GRF (1-44) (human)	0
IGF-1 (human)	0
Pancreatic Polypeptide (human)	0
Pancreastatin (human)	0
Somatostatin-14	0
TGF α (1-50) (rat)	0

Applications:

Tested in ELISA against Insulin. Other applications like immunohistochemistry (IHC), FACS, and Western blot may work as well.

Optimal dilutions should be determined by the end user

Please see www.bma.ch for protocols and general information

Related Products:

T-5015: Guinea pig anti Insulin, neat antiserum

T-5014: Guinea pig anti Insulin, purified IgG

This product contains sodium azide as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.