



BMA BIOMEDICALS



Peninsula Laboratories

T-5013

Guinea pig anti Insulin (human) [UniProt: P01308]

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

Lot number:	022051-4
Host species:	Guinea pig
Quantity:	50ml
Format:	This polyclonal antibody is supplied as a lyophilized powder. The powder should be rehydrated with 50ml of RIA buffer. Upon reconstitution to 50ml total volume, the 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. Store at 4° - 8°C. This should ensure antibody stability for approximately one month.
Stability:	Original vial: at least one year at 4° - 8°C from date of delivery. Minimize repeated thawing and freezing of the antiserum by freezing aliquots at -20°C or below.
Applications:	This antibody has been tested and validated in ELISA against Insulin. Other applications like immunohistochemistry (IHC), FACS or 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.
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.

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

Related Products: T-5015: guinea pig anti Insulin (hu), neat antiserum
T-5014: guinea pig anti Insulin (hu), purified IgG

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

T-5013

diluted antiserum - hu

03.02.2021