

## Product datasheet for **TA364377**

### Insulin (INS) Guinea Pig Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA
Recommended Dilution:	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.
Reactivity:	Human
Host:	Guinea Pig
Clonality:	Polyclonal
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.
Formulation:	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 <sub>3</sub> , and 0.1% Triton X-100. Store at 4° - 8°C. This should ensure antibody stability for approximately one month.
Concentration:	N/A
Conjugation:	Unconjugated
Storage:	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.
Gene Name:	insulin
Database Link:	<a href="#">Entrez Gene 3630 Human P01308</a>



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**Background:**

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.

**Synonyms:**

ILPR; insulin; IRDN; OTTHUMP00000011162; OTTHUMP00000196038; proinsulin