

Product datasheet for **BP5053**

Insulin (INS) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ELISA, IHC

Recommended Dilution: **ELISA.**

Immunohistochemistry on Frozen and Paraffin Sections: Proteolytic treatment is not required, optimal results have been obtained by using the autoclave or microwave retrieval method (with citrate buffer).

Working Dilutions: For immunohistochemistry dilute 1/50-1/100 (with PBS or TBS immediately before use), based on the indirect method, with a normal ABC method the dilution can be up to 5x higher when using the microwave retrieval method.

Recommended Positive Control: Pancreas.

Reactivity: Ferret, Human, Porcine, Rat

Host: Rabbit

Clonality: Polyclonal

Immunogen: Porcine Insulin

Specificity: The antibody detects Insulin which is produced by the B-cells of the pancreatic islets. Antibody BP5053 can be used for the diagnosis of pancreatic B-cell tumors. Antigen localization: cytoplasm, extracellular.

Formulation: State: Serum

State: Liquid Serum

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: insulin

Database Link: [Entrez Gene 3630 Human P01308](#)



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Background:

Insulin is one of the major regulatory hormones of intermediate metabolism throughout the body. The biological actions of this hormone involve integration of carbohydrate, protein, and lipid metabolism. Insulin enhances membrane transport of glucose, amino acids, and certain ions. It also promotes glycogen storage, formation of triglycerides and synthesis of proteins and nucleic acids. Immunocytochemical investigations have localized insulin in the B cells of pancreatic islets of Langerhans. Deficiency of insulin results in diabetes mellitus, one of the leading causes of morbidity and mortality in the general population. Insulin is also present in tumors of B cell origin such as insulinoma.

Synonyms:

INS