

Insulin, Polyclonal guinea pig-anti-human

Catalog number: GP-4095-01	0.5 ml	Concentrated	Ig 1 mg/ml
GP-4095-02	1.0 ml	Concentrated	Ig 1mg/ml
GP-4095-04	7.0 ml	Prediluted for IHC	Ig ~ 8µg/ml

Buffer The antibody is supplied with 1% BSA in PBS with 0.05% azide, pH 7.4. The Prediluted antibody is supplied in our Universal antibody dilution buffer (AR-6526) green in color.

Description: Insulin is a 51 amino acids peptide hormone MW 5808 Da. It is produced by beta cells of the islets of Langerhans in the pancreas. Insulin enhances membrane transport of glucose, amino acids and certain ions. It promotes glycogen storage, formation of triglycerides and synthesis of proteins and nucleic acids. Lack of insulin causes diabetes mellitus. **Insulin is also present in tumors of B cell origin such as insulinoma.**

Intended Use: Immunohistochemistry (IHC) and Immunocytochemistry (ICC)

Storage: 2-8°C

Epitope: not known

Molecular weight of antigen: 5808 Da

Immunogen: .Purified human insulin conjugated to carrier protein

Species reactivity: Human, porcine, others not tested.

Cellular Localization: Cytoplasmic Immunohistochemistry (IHC) 1:50-1:200 using polymer system or streptavidin-biotin system. Formalin-fixed paraffin-embedded (FFPE) tissue sections and cell smears

Recommended positive control: Human pancreas.

Application: IHC, ICC (frozen or formalin-fixed paraffin-embedded (FFPE) tissue sections, cell smears)

For IHC dilute conc. antibodies 1:50-1:100, use streptavidin~biotin system or polymer system, incubate 30 minutes at room temperature.

Prediluted antibody is ready to be used for IHC.

The optimum dilution should be determined by the individual lab.

General References

1. Heitz, PU et.al. Human Pathol. 13: 263, 1983
2. Weidenheim, KM et. al. Am. Clin. 79: 14, 1983

3. Mziant, H et al. Proc. Natl. Acad. Sci. 105: 674-679, 2008

4. Zhang, Q et al. Nat. Cell Biol. 9: 453-460, 2007

Limitation and warranty: Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

MSDS: This product contains 0.05 % sodium azide as a preservative, appropriate care should be taken in handling. National Institute of Occupational Safety and Health has warning that sodium azide can react with lead, copper, brass or solder in the plumbing system and forms hydrazoic acid in acidic condition. Discard with copious amount of water. Avoid skin and eye contact with all laboratory products. Use appropriate laboratory gear, lab. coat, gloves and safety glasses. Do not ingest any laboratory products. This product is not approved for administration in human or animals.

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