BM504P

Monoclonal Antibody to Insulin - Purified

Alternate names: INS
Quantity: 0.1 mg
Concentration: 1.0 mg/ml (Lot specific)

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.

Uniprot ID: P01308
NCBI: NP_000198.1
GeneID: 3630
Host / Isotype: Mouse / IgG1
Recommended Isotype Controls: SM10P (for use in human samples), AM03095PU-N
Clone: E2E3
Immunogen: Hybridoma produced by the fusion of splenocytes from mice immunized with full-length insulin protein and mouse myeloma cells.

Format: State: Liquid purified Ig fraction
Purification: Affinity Chromatography on Protein A/G
Buffer System: PBS
Preservatives: 0.08% Sodium Azide

Applications: ELISA.
Immunohistochemistry on formalin-fixed, paraffin-embedded tissues (1-2 µg/ml, incubate at RT for at least 1 hr.).
Western blot (1-5 µg/ml).
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody detects Insulin.
Species: Human, Bovine, Porcine.
Other species not tested.

Storage: Upon receipt, store undiluted (in aliquots) at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: 1. Roth J, Klöppel G, Madsen OD, Storch MJ, Heitz PU. Distribution patterns of...