

## Product datasheet for **BM504P**

### Insulin (INS) Mouse Monoclonal Antibody [Clone ID: E2E3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	E2E3
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Immunohistochemistry on formalin-fixed, paraffin-embedded tissues</b> (1-2 µg/ml, incubate at RT for at least 1 hr.). <b>Western blot</b> (1-5 µg/ml).
Reactivity:	Bovine, Human, Porcine
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Hybridoma produced by the fusion of splenocytes from mice immunized with full-length insulin protein and mouse myeloma cells.
Specificity:	This antibody detects Insulin.
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Preservative: 0.08% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A/G
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	insulin
Database Link:	<a href="#">Entrez Gene 3630 Human P01308</a>



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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