Product Information Sheet

Monoclonal Anti-Insulin

Catalogue No. MA1052

Lot No. 08A12

Clone: ISL-8J

Ig type: mouse IgG1

Size: 100µg/vial

Specificity

Human, mouse, rat.
No cross reactivity with other proteins.

Recommended application
Immunohistochemistry(P)

To reorder contact us at:
Antagene, Inc.
Toll Free: 1(866)964-2589
email: Info@antageneinc.com

Purification
Purified by the goat anti-mouse IgG affinity chromatography.

Application
Immunohistochemistry(P)
At 0.4-1µg/ml to detect insulin in formalin fixed and paraffin embedded tissues.
Other applications have not been tested.
Optimal dilutions should be determined by end user.

Formulation
Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN_3 as preservative.

Reconstitution
1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage
At -20˚C for one year. After reconstitution, at 4˚C for three month. It can also be aliquotted and stored frozen at -20˚C for longer time.

BACKGROUND

Insulin, synthesized by the beta cells of the islets of Langerhans, consists of 2 dissimilar polypeptide chains, A and B, which are linked by 2 disulfide bonds. The insulin gene contains 3 exons and 2 introns; exon 2 encodes the signal peptide, the B chain, and part of the C peptide, while exon 3 encodes the remainder of the C peptide and the A chain. Localization of the human insulin gene to the distal end of the short arm of chromosome 11. Harper et al. (1981) and Harper and Saunders (1981) assigned the insulin gene to 11p15.5 by in situ hybridization

REFERENCE

1 Harper, M. E.; Ullrich, A.; Saunders, G. F. : Localization of the human insulin gene to the distal end of the short arm of chromosome 11. Proc. Nat. Acad. Sci. 78: 4458-4460, 1981.
2 Owerbach, D.; Bell, G. I.; Rutter, W. J.; Shows, T. B. : The insulin gene is located on chromosome 11 in human. Nature 286: 82-84, 1980.

FOR RESEARCH USE ONLY.   NOT FOR DIAGNOSTIC AND CLINICAL USE.

3 Huerre, C.; Gilgenkrantz, S.; Leonard, C.; Pictet, R.; Kaplan, J. C.; Junien, C. : Regional assignment of the structural gene for insulin to 11p15.1-11p15.5 by deletion mapping. (Abstract) Cytogenet. Cell Genet. 37: 495, 1984.