

C-Peptide Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50358

Clone# BP6326

Predicted Molecular Wt: 11kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P01308

Background:

C-Peptide (connecting peptide) is a part of the proinsulin protein which is coded by the insulin gene at 11p15.5 and produced exclusively by the beta cells of the pancreatic islets.

C-peptide is mainly expressed in the pancreatic beta cells of the islets of Langerhans, where it is co-secreted with insulin in equimolar amounts upon glucose stimulation. In tumor contexts, C-peptide has been detected in insulin-secreting beta-cell tumors such as insulinoma.

The immunohistochemical detection of C-peptide in pancreatic tissue supports the classification of insulinomas and other neuroendocrine tumors, while serum C-peptide levels correlate with residual beta-cell mass and provide prognostic insight in diabetes mellitus, thereby guiding therapeutic decisions and monitoring islet cell survival or dysfunction in both neoplastic and non-neoplastic pancreatic diseases.

Subcellular location:

Secreted

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide. This information is proprietary to BioLynx.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

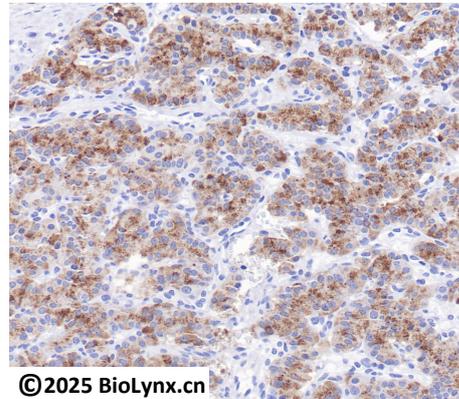
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

- Chen, J. et al. (2023) Front Endocrinol (Lausanne) 14:1256093.
- Jones, AG. et al. (2013) Diabet Med 30(7):803-17



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human insulinoma labelling C-Peptide with BP6326.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.