# Product Datasheet

## Proinsulin Antibody (CCI-17) - BSA Free
## NB100-73013

Unit Size: 0.2 mg

Store at 4C. Do not freeze.

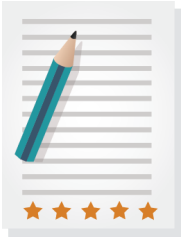
www.novusbio.com technical@novusbio.com

**Reviews: 1 Publications: 12**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-73013

Updated 9/9/2025 v.20.1





# NB100-73013

Proinsulin Antibody (CCI-17) - BSA Free

| Product Information | |
|---|---|
| **Unit Size** | 0.2 mg |
| **Concentration** | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| **Storage** | Store at 4C. Do not freeze. |
| **Clonality** | Monoclonal |
| **Clone** | CCI-17 |
| **Preservative** | 0.09% Sodium Azide |
| **Isotype** | IgG1 |
| **Purity** | Protein A purified |
| **Buffer** | PBS (pH 7.4) |

| Product Description | |
|---|---|
| **Description** | Novus Biologicals Mouse Proinsulin Antibody (CCI-17) - BSA Free (NB100-73013) is a monoclonal antibody validated for use in WB, ELISA and ICC/IF. Anti-Proinsulin Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| **Host** | Mouse |
| **Gene ID** | 3630 |
| **Gene Symbol** | INS |
| **Species** | Human, Rat |
| **Reactivity Notes** | Human reactivity reported in scientific literature (PMID: 31311313). |
| **Immunogen** | Hybridoma clone has been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with fragment of rat proinsulin conjugated with a carrier protein. |

| Product Application Details | |
|---|---|
| **Applications** | Western Blot, ELISA, Sandwich ELISA |
| **Recommended Dilutions** | Western Blot, ELISA 1:100-1:2000, Sandwich ELISA 1:100-1:2000 |
| **Application Notes** | Use in Western blot reported in reported in scientific literature (PMID: 31311313). Binds specifically to proinsulin and does not bind to insulin or C-peptide. For sandwich immunoassay it is recommended to use MAbs in pairs with MAbs specific to N-terminal part of C-peptides I and II. Recommended pair for sandwich-type rat proinsulin I and II immunoassay is (capture-detection): NB100-73013 - NBP1-05442. |

## Publications


Li X, Hu J, Huang Y et al. Trap α deficiency impairs the early events of insulin biosynthesis and glucose homeostasis The Journal of Clinical Investigation 2025-05-20 [PMID: 40392602]

Xu X, Arunagiri A, Alam M, Haataja L et Al. Nutrient-dependent regulation of ?-cell proinsulin content J Biol Chem 2023-05-20 [PMID: 37209827]

Arunagiri A, Alam M, Haataja L, Draz H et Al. Proinsulin folding and trafficking defects trigger a common pathological disturbance of endoplasmic reticulum homeostasis Protein Sci 2024-03-21 [PMID: 38511500]

Miyake M, Sobajima M, Kurahashi K, Shigenaga A et Al. Identification of an endoplasmic reticulum proteostasis modulator that enhances insulin production in pancreatic ? cells Cell Chem Biol 2022-02-10 [PMID: 35143772]

Liu Y, Yang X, Zhou J et Al. OSGEP regulates islet ?-cell function by modulating proinsulin translation and maintaining ER stress homeostasis in mice Nat Commun 2024-12-02 [PMID: 39622811]

Chen CW, Guan BJ, Alzahrani MR et al. Adaptation to chronic ER stress enforces pancreatic beta-cell plasticity Nature communications 2022-08-08 [PMID: 35941159] (WB, ICC/IF)

Details:
Dilutions: 1:1000

Xu X, Arunagiri A, Haataja L et al. Proteasomal degradation of wild-type proinsulin in pancreatic beta cells The Journal of biological chemistry 2022-08-18 [PMID: 35988641] (ICC/IF, Rat)

Xu X, Huang Y, Li X et al. The Role of TRAP gamma/SSR3 in Preproinsulin Translocation into the Endoplasmic Reticulum Diabetes 2021-12-02 [PMID: 34857543]

Herlea-Pana O, Eeda V, Undi RB Et al. Pharmacological Inhibition of Inositol-Requiring Enzyme 1 alpha RNase Activity Protects Pancreatic Beta Cell and Improves Diabetic Condition in Insulin Mutation-Induced Diabetes Frontiers in endocrinology 2021-10-05 [PMID: 34675883] (WB, Mouse)

Chen YJ, Knupp J, Arunagiri A Et al. PGRMC1 acts as a size-selective cargo receptor to drive ER-phagic clearance of mutant prohormones Nature communications 2021-10-13 [PMID: 34645803] (WB)

Huang Y, Xu X, Arvan P, Liu M Deficient endoplasmic reticulum translocon-associated protein complex limits the biosynthesis of proinsulin and insulin FASEB journal : official publication of the Federation of American Societies for Experimental Biology 2021-05-01 [PMID: 33811688]

Liu S, Li X, Yang J et al. Misfolded proinsulin impairs processing of precursor of insulin receptor and insulin signaling in beta cells FASEB J. 2019-07-16 [PMID: 31311313] (WB, Human)

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## Products Related to NB100-73013

| | |
|---|---|
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP] |
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB7539 | Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP] |
| NBP1-97005-0.5mg | Mouse IgG1 Isotype Control (MG1) |

**Limitations**
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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