

Rev04
Update: Oct,19,2022

DATASHEET

Proinsulin Antibody (1A3D8), mAb, Mouse

Cat. No.: A01728

Overview

Specificity	Proinsulin monoclonal antibodies (1A3D8, 1C6D6) recognize human proinsulin.
Host Species	Mouse
Immunogen	Human recombinant proinsulin
Species Reactivity	Proinsulin monoclonal antibodies (1A3D8, 1C6D6) recognize human proinsulin.
Conjugate	Unconjugated

Applications

These antibodies are perfect choice for in vitro diagnostic assay development. And they are prepared for non - clinical research use only. The recommended pairs are based on our laboratory results.

Application	Recommended Usage
ELISA	0.1-10 µg/ml

Properties

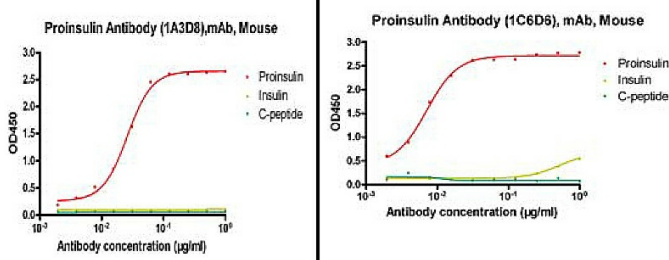
Form	Liquid
Storage Buffer	0.5mg/ml, in PBS buffer, pH 7.4, containing 0.02% sodium azide.
Concentration	0.5 mg/ml
Storage Instructions	Stored at - 20°C or below until use. Avoid repeated freezing and thawing cycles.
Purification	Protein A affinity column
Isotype	Mouse IgG1, κ
Clonality	Monoclonal
Clone ID	1A3D8

Examples

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Cross - reactivity of PSA monoclonal antibodies by Indirect ELISA:

General conditions:

1. Microplate was coated with Proinsulin, Insulin or C - peptide respectively, followed by 3 washing cycles.
2. Incubation with mouse anti - Proinsulin antibody followed by 3 washing cycles.
3. Incubation with goat anti - mouse IgG conjugated to peroxidase, followed by 3 washing cycles.
4. Colorimetric determination of bound peroxidase activity.

Background

Target Background : Proinsulin is the prohormone precursor to insulin made in the beta cells of the islets of Langerhans, specialized regions of the pancreas. It is synthesized in the endoplasmic reticulum, where it is folded and its disulfide bonds are oxidized. It is then transported to the Golgi apparatus where it is packaged into secretory vesicles, and where it is processed by a series of proteases to form mature insulin. Mature insulin has 35 fewer amino acids; 4 are removed altogether, and the remaining 31 forms C - peptide. The C - peptide is abstracted from the center of the proinsulin sequence; the two other ends (the B chain and A chain) remain connected by disulfide bonds. GenScript Human Proinsulin Antibody, mAb, Mouse is produced from the hybridoma resulting from fusion of SP2/ - Ag14 myeloma and B - lymphocytes obtained from mouse immunized with human recombinant proinsulin.

Synonyms : Proinsulin Antibody (1A3D8), mAb, Mouse;

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.