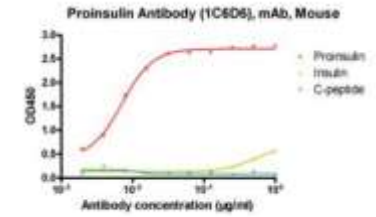
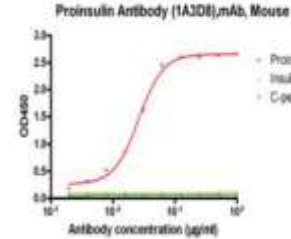


Anti-Proinsulin Antibody (1A3D8)

CATALOG NO:	A1362-500
AMOUNT:	500 µg
IMMUNOGEN:	Human recombinant proinsulin
CLONALITY:	Monoclonal
CLONE:	1A3D8
HOST/ISOTYPE:	Mouse IgG1, κ
PURIFICATION:	Protein A purification
FORM:	Liquid
CONCENTRATION:	0.5 mg/ml
FORMULATION:	In PBS buffer, pH 7.4, containing 0.02% sodium azide
STORAGE CONDITIONS:	For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.
SPECIFICITY:	Proinsulin monoclonal antibodies (1A3D8, 1C6D6) recognize human proinsulin.
DESCRIPTION:	<p>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.</p> <p>Proinsulin Antibody is produced from the hybridoma resulting from fusion of SP2/-Ag14 myeloma and B-lymphocytes obtained from mouse immunized with human recombinant proinsulin.</p>
APPLICATION:	These antibodies are perfect choice for in vitro diagnostic assay development. They are prepared for non-clinical research use only. The recommended pairs are based on our R&D results.



Cross-reactivity of Proinsulin monoclonal antibodies by Indirect ELISA

General conditions for sandwich ELISA:

1. Microplate was coated with a capture antibody against C-peptide, followed by 3 washing cycles.
2. Incubation with mouse anti-Proinsulin antibody followed by 3 washing cycles. Incubation with Biotin conjugated detection antibody against C-peptide, followed by 3 washing cycles.
3. Incubation with goat anti-mouse IgG conjugated to peroxidase, followed by 3 washing cycles
4. Peroxidase activity was determined using Colorimetric detection.

RELATED PRODUCTS:

- C-Peptide (human/mouse/rat) EIA Kit (**Cat. No. K4757**)
- C-Peptide Antibody (Clone HCP-B2) (**Cat. No. 3103**)
- C-Peptide Blocking Peptide (**Cat. No. 3277BP**)
- C-Peptide Antibody (**Cat. No. 3277**)
- C-reactive/CRP Monoclonal Antibody (**Cat. No. A1208**)
- ProInsulin (human) ELISA Kit (**Cat. No. K7433**)
- Proinsulin Antibody (Clone HPI-B5) (**Cat. No. 3106**)
- QuickDetect™ Proinsulin (Human) ELISA Kit (**Cat. No. K4411**)
- Human CellExp™ Pro-IGF-II, Human Recombinant (**Cat. No. 6477**)

FOR RESEARCH USE ONLY! Not to be used on humans.