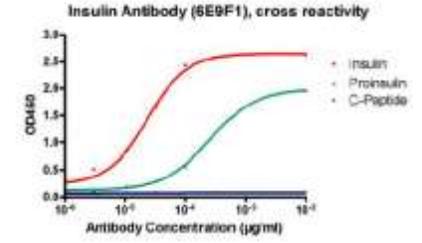
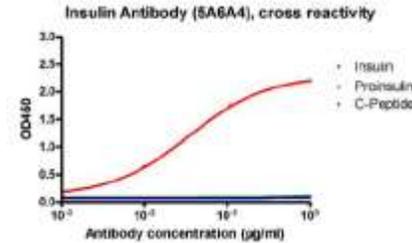


Anti-Insulin Antibody (5A6A4)

CATALOG NO:	A1365-1000
AMOUNT:	1 mg
IMMUNOGEN:	Human recombinant Insulin expressed in yeast
CLONALITY:	Monoclonal
CLONE:	5A6A4
HOST/ISOTYPE:	Mouse IgG2b, 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:	Insulin Antibody (5A6A4), mAb, Mouse detects human Insulin and it has no cross-reactivity with Proinsulin and C-peptide.
DESCRIPTION:	<p>Insulin is one of the major regulatory hormones of intermediate metabolism throughout the body. It regulates the cellular uptake, utilization, and storage of glucose, amino acids, and fatty acids and inhibits the breakdown of glycogen, protein, and fat. Proinsulin is the prohormone precursor to insulin made in pancreas. 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 form the C-Peptide. The C-Peptide is abstracted from the center of the proinsulin sequence; the two other ends (α and β chains) remain connected by disulfide bonds. Deficiency of insulin results in diabetes mellitus, one of the leading causes of morbidity and mortality in the general population. Insulin is also present in tumors of B cell origin such as insulinoma.</p> <p>Insulin Antibody (6E9F1) is produced from the hybridoma resulting from fusion of SP2/0-Ag14 myeloma and B-lymphocytes obtained from mouse immunized with human recombinant Insulin expressed in yeast</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.

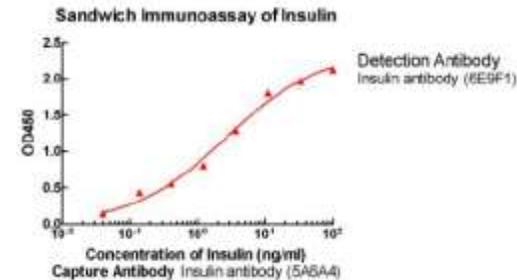
FOR RESEARCH USE ONLY! Not to be used on humans.



Cross-reactivity of Insulin monoclonal antibodies by Indirect ELISA

Assay protocol for sandwich ELISA:

1. Microplate was coated with insulin, proinsulin or C-peptide respectively, followed by 3 washing cycles.
2. Incubation with mouse anti-insulin 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.



Assay protocol for Sandwich ELISA:

1. Microplate was coated with a capture antibody against insulin, followed by 3 washing cycles.
2. Incubation with insulin followed by 3 washing cycles.
3. Incubation with peroxidase conjugated detection antibody against insulin, followed by 3 washing cycles.
4. Colorimetric determination of bound peroxidase activity.

RELATED PRODUCTS:

- ProInsulin (human) ELISA Kit (Cat. No. K7433)
- Proinsulin Antibody (Clone HPI-B5) (Cat. No. 3106)