Product datasheet

Anti-Insulin + Proinsulin antibody [D6C4] ab8304

Overview

Product name
Anti-Insulin + Proinsulin antibody [D6C4]

Description
Mouse monoclonal [D6C4] to Insulin + Proinsulin

Host species
Mouse

Specificity
This antibody is specific for insulin and proinsulin.

Tested applications
Suitable for: Electron Microscopy, IP, ELISA, IHC-Fr, ICC/IF, Sandwich ELISA, IHC-P

Species reactivity
Reacts with: Mouse, Rat, Cow, Human, Pig

Immunogen
Human insulin.

General notes
Kd for this antibody is $8.1 \times 10^{-8}$M.
Detection of both insulin and proinsulin.

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer
PBS with 0.1% sodium azide, pH 7.4

Purity
Protein A purified

Primary antibody notes
Detection of both insulin and proinsulin.

Clonality
Monoclonal

Clone number
D6C4

Myeloma
unknown

Isotype
IgG1

Light chain type
kappa

Applications

Our Abpromise guarantee covers the use of ab8304 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
### Target

**Relevance**
Insulin decreases blood glucose concentration. It increases cell permeability to monosaccharides, amino acids and fatty acids. It accelerates glycolysis, the pentose phosphate cycle, and glycogen synthesis in liver. Defects in insulin are the cause of familial hyperproinsulinemia.

**Cellular localization**
Secreted

### Images

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Insulin + Proinsulin antibody [D6C4] (ab8304)**
This image is courtesy of an abreview submitted by Carl Hobbs, King's College London, United Kingdom.

**ab8304 at 1/1250 staining developing mouse pancreas tissue sections (E14/15) by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in Tris buffer was performed. The tissue was then blocked and incubated with the antibody for 2 hours. A biotinylated goat anti-mouse IgG antibody was used as the secondary.**
ab8304 used on human pancreas. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in Tris buffer was performed. The tissue was then blocked and incubated with the antibody for 2 hours. A biotinylated goat anti-mouse IgG antibody was used as the secondary.

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