

# Datasheet



Mouse mAb to **Insulin**  
Clone **2D11-H5**  
Isotype **IgG1-κ**

## Source

A BALB/c mouse was immunized with purified pig insulin, conjugated to KLH.  
Fusion partner: SP-2/0.

## Specifications

Insulin is a protein consisting of an  $\alpha$ -chain of 21 amino acids and a  $\beta$ -chain of 30 amino acids and produced in the  $\beta$ -cells of the pancreas. 2D11-H5 is a specific insulin antibody as tested by ELISA and on human pancreatic tissue.

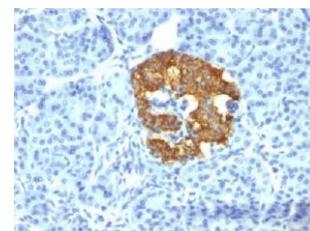
## Species reactivity

Positive: cow, human, mouse, pig, rat.

## Applications

Antibodies to insulin are important as beta-cell and insulinoma marker.

ELISA	Flow cytometry	Frozen sections	Immunofluorescence	Paraffin sections
+	+	+	+	Citrate



**Figure 1:** Human pancreas stained with 2D11-H5 (paraffin)

## Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02 % sodium azide.

Stored at 4°C- 8°C, shelf life is at least 24 months after purchase.

## Dilution advice

- ELISA (solid phase: 0,1-100  $\mu$ g/ml; tracer: 0,001-100  $\mu$ g/ml for 30 min at RT).
- Flow cytometry (0.5-1.0  $\mu$ g/million cells in 0.1 ml).
- Immunofluorescence (0.5-1  $\mu$ g/ml).
- Immunohistology (1-2  $\mu$ g/ml for 30 min at RT; staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes).

## Positive control

MIA, PaCa-2 cells, pancreas or insulinoma.

## References

- De la Tour, D, et al, *Mol. Endoc.* **15**: 476-483 (2001).
- Rajagopal, J, et al, *Science* **299**: 363 (2003).
- Morisset, J, et al, *J. Histochem. Cytochem.* **51**: 1501-1513 (2003).