For Research Use Only

CoraLite® Plus 488-conjugated INS Monoclonal antibody



Catalog Number: CL488-66198

1 Publications

Basic Information

Catalog Number:

CL488-66198 Size: Source: Mouse Isotype IgG2a

Immunogen Catalog Number:

AG8630

Calculated MW: 110 aa, 12 kDa

INS

3630

P01308

UNIPROT ID:

Full Name:

GenBank Accession Number: **Purification Method:**

BC005255 Protein A purification GeneID (NCBI): CloneNo.: 4B6A7

Recommended Dilutions:

IF 1:200-1:800

Excitation/Emission maxima

wavelengths: 493 nm / 522 nm

Applications

Tested Applications:

IF-P

Cited Applications:

IF

Species Specificity: human, mouse, rat Cited Species: mouse

Positive Controls:

IF: mouse pancreas tissue,

Background Information

INS is a peptide hormone, produced by beta cells of the pancreas, and is central to regulating carbohydrate and fat metabolism in the body. It participates in glucose utilization, protein synthesis and in the formation and storage of neutral lipids. It is synthesized as a precursor molecule, which is processed prior to secretion. A- and B-peptides are joined together by a disulfide bond to form INS, while the central portion of the precursor molecule is cleaved and released as the C-peptide. Defects in INS results in type 1 diabetes mellitus. INS may also exist 36 kDa form corresponding to the hexameric INS form.

Notable Publications

Author	Pubmed ID	Journal	Application
Batoul Hammoud	38195178	Endocrinology	IF

Storage

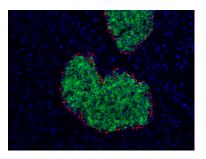
Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse pancreas tissue using the CoraLite® Plus 488-conjugated version of this antibody, CL488-66198 (INS antibody), at dilution of 1:400. The α cells of pancreas was labelled in red with 15954-1-AP (Glucagon antibody).