

#9016
Store at +4°C

Insulin (C27C9) Rabbit mAb (Alexa Fluor® 488 Conjugate)



Cell Signaling
TECHNOLOGY®

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

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| Applications: IF-F, FC-FP | Reactivity: H M R | Sensitivity: Endogenous | Source/Isotype: Rabbit IgG | UniProt ID: #P01308 | Entrez-Gene Id: 3630 |
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| Product Usage Information | Application Immunofluorescence (Frozen) Flow Cytometry (Fixed/Permeabilized) | Dilution 1:200 1:50 |
| Storage | Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze. | |
| Specificity / Sensitivity | Insulin (C27C9) Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of total insulin protein. | |
| Source / Purification | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human insulin. | |
| Product Description | This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct immunofluorescent analysis in rat cells and flow cytometry in human and mouse cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Insulin (C27C9) Rabbit mAb #3014. | |
| Background | The maintenance of glucose homeostasis is an essential physiological process that is regulated by hormones. An elevation in blood glucose levels during feeding stimulates insulin release from pancreatic β cells through a glucose sensing pathway (1). Insulin is synthesized as a precursor molecule, proinsulin, which is processed prior to secretion. A- and B-peptides are joined together by a disulfide bond to form insulin, while the central portion of the precursor molecule is cleaved and released as the C-peptide. Insulin stimulates glucose uptake from blood into skeletal muscle and adipose tissue. Insulin deficiency leads to type 1 diabetes mellitus (2). | |
| Background References | 1. Straub, S.G. and Sharp, G.W. (2002) <i>Diabetes Metab. Res. Rev.</i> 18, 451-463. 2. Concannon, P. et al. (1998) <i>Nat. Genet.</i> 19, 292-296. | |

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| Species Reactivity | Species reactivity is determined by testing in at least one approved application (e.g., western blot). |
| Applications Key | IF-F: Immunofluorescence (Frozen) FC-FP: Flow Cytometry (Fixed/Permeabilized) |
| Cross-Reactivity Key | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected |

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