

#9016
Store at +4C**Insulin (C27C9) Rabbit mAb (Alexa Fluor®
488 Conjugate)****Orders:** 877-616-CELL (2355)
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For Research Use Only. Not for Use in Diagnostic Procedures.

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.	
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	<ol style="list-style-type: none"> 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. 	
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	
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