

Insulin (C27C9) Rabbit mAb

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

Applications: W-S, IHC-P, IF-F, IF-IC, 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 Simple Western™ Immunohistochemistry (Paraffin) Immunofluorescence (Frozen) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	Dilution 1:10 - 1:50 1:6400 - 1:25600 1:200 - 1:800 1:200 - 1:800 1:50 - 1:200
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. For a carrier free (BSA and azide free) version of this product see product #56823.	
Specificity/Sensitivity	Insulin (C27C9) Rabbit mAb detects endogenous levels of total insulin protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to Val42 of human insulin.	
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.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	W-S: Simple Western™ IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human M: Mouse R: Rat
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