Insulin (L6B10) Mouse mAb



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Applications: W, IP, IF-F	Reactivity: R	Sensitivity: Endogenous	MW (kDa): 6	Source/Isotype: Mouse IgG2a	UniProt ID: #P01308	Entrez-Gene Id: 3630
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence			Dilution 1:1000 1:50 1:400 - 1:1600)
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.				
Specificity/Sensitivity		Insulin (L6B10) Mouse mAb recognizes endogenous levels of total insulin and proinsulin.				
Species predicted to react based on 100% sequence homology		Human, Mouse				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val36 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 Re	eferences	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 Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)				
Cross-Reactivity Key		R: Rat				
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