## **Insulin Antibody**



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

<b>Applications:</b> FIHC-P, IF-F, IF-IC, FC-FP	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 6	<b>Source:</b> Rabbit	UniProt ID: #P01308	Entrez-Gene Id 3630	
Product Usage Information	Apı	plication				Dilution	
	Imr	Immunohistochemistry (Paraffin)					
	Imr	nunofluorescence (	Frozen)			1:100	
	Imr	nunofluorescence (		1:100			
	Flo	w Cytometry (Fixed		1:100			
Storage Specificity / Sensitiv	20°C	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.  Insulin Antibody detects endogenous levels of total insulin protein.					
Source / Purification	,	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human insulin. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	horn cells whic insu Insu	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 $\beta$ 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 Referen	.000	traub, S.G. and Sha oncannon, P. et al. (	Rev. 18, 451-463.				

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Applications Key** 

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 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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