

Store at
-20°C
#45404**C-Peptide (E7U7F) XP[®] Rabbit mAb (BSA and Azide Free)**

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IHC-P	H	Endogenous	4	Rabbit IgG	#P01308	3630
Product Usage Information	This product is the carrier free version of product #38069. All data were generated using the same antibody clone in the standard formulation which contains BSA and glycerol. This formulation is ideal for use with technologies requiring specialized or custom antibody labeling, including fluorophores, metals, lanthanides, and oligonucleotides. It is not recommended for ChIP, ChIP-seq, CUT&RUN or CUT&Tag assays. If you require a carrier free formulation for chromatin profiling, please contact us. Optimal dilutions/concentrations should be determined by the end user. BSA and Azide Free antibodies are quality control tested by size exclusion chromatography (SEC) to determine antibody integrity.					
Formulation	Supplied in 1X PBS (10 mM Na₂HPO₄, 3 mM KCl, 2 mM KH₂PO₄, and 140 mM NaCl (pH 7.8)). BSA and Azide Free. For standard formulation of this product see product #38069					
Storage	Store at -20°C. <i>This product will freeze at -20°C so it is recommended to aliquot into single-use vials to avoid multiple freeze/thaw cycles.</i> A slight precipitate may be present and can be dissolved by gently vortexing. This will not interfere with antibody performance.					
Specificity/Sensitivity	C-Peptide (E7U7F) XP[®] Rabbit mAb (BSA and Azide Free) recognizes endogenous levels of total C-peptide protein.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly71 of human C-peptide protein.					
Background	Glucose homeostasis is regulated by hormones. Elevation of blood glucose levels during feeding stimulates insulin release from pancreatic β-cells through a glucose sensing pathway (1). Proinsulin, the insulin precursor molecule, is processed prior to its secretion. Insulin is composed of A-peptide and B-peptide which are joined by a disulfide bond. The center one-third of the molecule is cleaved and released as C-peptide, which has a longer half-life than insulin (2).					
Background References	1. Straub, S.G. and Sharp, G.W. (2002) <i>Diabetes Metab. Res. Rev.</i> 18, 451-463. 2. Polonsky, K.S. and Rubenstein, A.H. (1984) <i>Diabetes</i> 33, 486-494.					

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	IHC-P: Immunohistochemistry (Paraffin)
Cross-Reactivity Key	H: Human
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