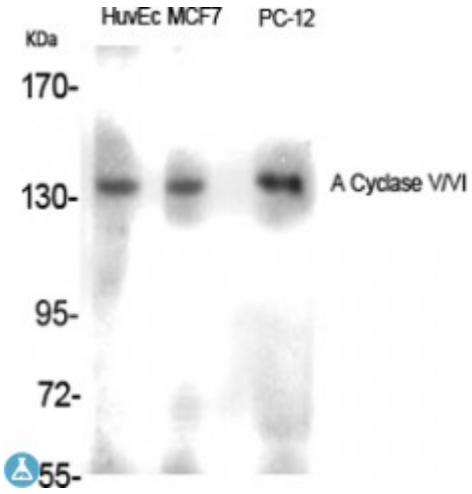
Anti-A Cyclase V/VI antibody



Description	Rabbit polyclonal to A Cyclase V/VI.

Model	STJ91397
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IF, IHC, WB
Immunogen	Synthesized peptide derived from human A Cyclase V/VI
Immunogen Region	900-980 aa, C-terminal
Gene ID	111
Gene Symbol	ADCY5
Dilution range	WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:10000
Specificity	A Cyclase V/VI Polyclonal Antibody detects endogenous levels of A Cyclase V/VI protein.
Tissue Specificity	Detected in pancreas islets (at protein level). Detected in pancreas islets.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Adenylate cyclase type 5 ATP pyrophosphate-lyase 5 Adenylate cyclase type V Adenylyl cyclase 5 AC5
Molecular Weight	138 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:236OMIM:600293
Alternative Names	Adenylate cyclase type 5 ATP pyrophosphate-lyase 5 Adenylate cyclase type V Adenylyl cyclase 5 AC5
Function	Catalyzes the formation of the signaling molecule cAMP in response to G-protein signaling . Mediates signaling downstream of ADRB1 . Regulates the increase of free cytosolic Ca(2+) in response to increased blood glucose levels and contributes to the regulation of Ca(2+)-dependent insulin secretion .
Sequence and Domain Family	The protein contains two modules with six transmembrane helices each; both are required for catalytic activity. Isolated N-terminal or C-terminal guanylate cyclase domains have no catalytic activity, but when they are brought together, enzyme activity is restored. The active site is at the interface of the two domains. Both contribute substrate-binding residues, but the catalytic metal ions are bound exclusively via the N-terminal guanylate cyclase domain.
Cellular Localization	Cell membrane
Post-translational Modifications	Phosphorylated by RAF1.