Datasheet for ABIN6282675

anti-PPP1CA antibody (pThr320)

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Overview

Quantity:	50 µL
Target:	PPP1CA
Binding Specificity:	AA 260-340, pThr320
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PPP1CA antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	PP1α is a protein encoded by the PPP1CA gene which is approximately 37,5 kDa. PP1α is localised to the cytoplasm and nucleus. It is involved in vascular smooth muscle contraction, regulation of lipid metabolism and insulin signalling-generic cascades. It is one of the three catalytic subunits of protein phosphatase 1. It is an enzyme that catalyses the removal of phosphate groups from serine and/or threonine residues by hydrolysis of phosphoric acid monoesters. They oppose the action of kinases and phosphorylases and are involved in signal transduction. PP1α is expressed in the lung, muscle, blood, pancreas and liver. Increased activity of this protein has been observed in the end stage of heart failure. STJ91134 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This primary antibody specifically binds to endogenous PP1α protein which only binds about T320 when T320 is phosphorylated.
Immunogen:	Synthesized peptide derived from human PP1alpha around the phosphorylation site of T320.

Product Details

Isotype:	IgG
Specificity:	Phospho-PP1α (T320) Polyclonal Antibody detects endogenous levels of PP1α protein only when phosphorylated at T320.
Characteristics:	Rabbit polyclonal to Phospho-PP1α (T320).
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	PPP1CA
Alternative Name:	PP1alpha (PPP1CA Products)
Molecular Weight:	37 kDa
Gene ID:	5499
UniProt:	P62136
Pathways:	M Phase, Cellular Glucan Metabolic Process, Regulation of Carbohydrate Metabolic Process, Lipid Metabolism

Application Details

Application Notes:	IHC 1:100-1:300 ELISA 1:10000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Liquid in PBS containing 50 % glycerol, 0.5 % BSA and 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Handling

Storage Comment:	Store at -20°C, and avoid repeat freeze-thaw cycles.