Best Tools for immunology Research

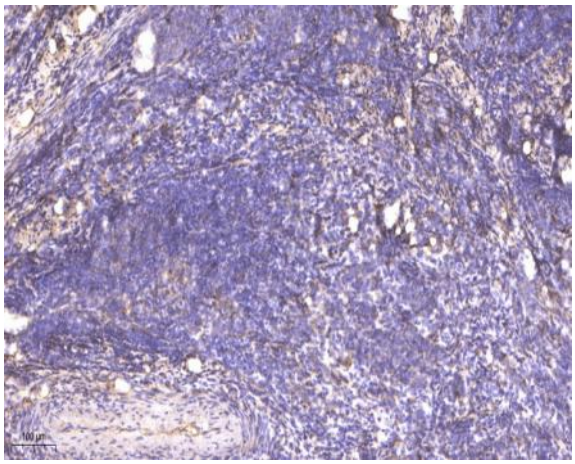
PP2A-B55-β Polyclonal Antibody

Catalog No :	YT3827
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC
Target :	PP2A-B55-β
Fields :	>>mRNA surveillance pathway;>>Sphingolipid signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Adrenergic signaling in cardiomyocytes;>>Hippo signaling pathway;>>Tight junction;>>Dopaminergic synapse;>>Chagas disease;>>Hepatitis C;>>Human papillomavirus infection
Gene Name :	PPP2R2B
Protein Name :	Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B beta isoform
Human Gene Id :	5521
Human Swiss Prot No :	Q00005
Mouse Gene Id :	72930
Mouse Swiss Prot No :	Q6ZWR4
Rat Gene Id :	60660
Rat Swiss Prot No :	P36877
Immunogen :	Synthesized peptide derived from PP2A-B55-β . at AA range: 90-170
Specificity :	PP2A-B55-β Polyclonal Antibody detects endogenous levels of PP2A-B55-β protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG

Dilution :	WB 1:500-2000;IHC 1:50-300
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	51kD
Cell Pathway :	Akt_PKB;Tight junction;
Background :	protein phosphatase 2 regulatory subunit Bbeta(PPP2R2B) Homo sapiens The product of this gene belongs to the phosphatase 2 regulatory subunit B family. Protein phosphatase 2 is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes a beta isoform of the regulatory subunit B55 subfamily. Defects in this gene cause autosomal dominant spinocerebellar ataxia 12 (SCA12), a disease caused by degeneration of the cerebellum, sometimes involving the brainstem and spinal cord, and in resulting in poor coordination of speech and body movements. Multiple alternatively spliced variants, which encode different isofor
Function :	disease:Defects in PPP2R2B are the cause of spinocerebellar ataxia type 12 (SCA12) [MIM:604326]. Spinocerebellar ataxia is a clinically and genetically heterogeneous group of cerebellar disorders. Patients show progressive incoordination of gait and often poor coordination of hands, speech and eye movements, due to degeneration of the cerebellum with variable involvement of the brainstem and spinal cord. SCA12 is an autosomal dominant cerebellar ataxia (ADCA).,function:The B regulatory subunit might modulate substrate selectivity and catalytic activity, and also might direct the localization of the catalytic enzyme to a particular subcellular compartment.,similarity:Belongs to the phosphatase 2A regulatory subunit B family.,similarity:Contains 7 WD repeats.,subunit:PP2A consists of a common heterodimeric core enzyme, composed of a 36 kDa catalytic subunit (subunit C) and a 65 kDa constan
Subcellular Location :	[Isoform 1]: Cytoplasm . Cytoplasm, cytoskeleton . Membrane .; [Isoform 2]: Cytoplasm . Mitochondrion . Mitochondrion outer membrane . Under basal conditions, localizes to both cytosolic and mitochondrial compartments. Relocalizes from the cytosolic to the mitochondrial compartment during apoptosis. Its targeting to the outer mitochondrial membrane (OMM) involves an association with import receptors of the TOM complex and is required to promote proapoptotic activity (By similarity). .

Expression : Brain.

Products Images



Immunohistochemical analysis of paraffin-embedded human cervical carcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).