Datasheet for ABIN5518865

anti-CPI-17 antibody (AA 30-126)

6 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	CPI-17 (PPP1R14A)
Binding Specificity:	AA 30-126
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CPI-17 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Protein phosphatase 1 regulatory subunit 14A(PPP1R14A) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human CPI17 alpha recombinant protein (Position: L30-Q126). Human CPI17 alpha shares 83.5% and 84.5% amino acid (aa) sequence identity with mouse and rat CPI17 alpha, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Protein phosphatase 1 regulatory subunit 14A(PPP1R14A) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: protein phosphatase 1 regulatory inhibitor subunit 14A Protein Name: Protein phosphatase 1 regulatory subunit 14A

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	CPI-17 (PPP1R14A)
Alternative Name:	PPP1R14A (PPP1R14A Products)
Background:	Protein phosphatase 1 regulatory subunit 14A, also known as CPI-17, is a protein that in humans is encoded by the PPP1R14A gene. This protein is an inhibitor of smooth muscle myosin phosphatase, and has higher inhibitory activity when phosphorylated. Inhibition of myosin phosphatase leads to increased myosin phosphorylation and enhanced smooth muscle contraction. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. Synonyms: 17-KDa protein | CPI 17 alpha | CPI 17 | CPI 17alpha | CPI-17 | CPI17 | PPP1INL | Ppp1r14a | Q96A00
Gene ID:	94274
UniProt:	Q96A00

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

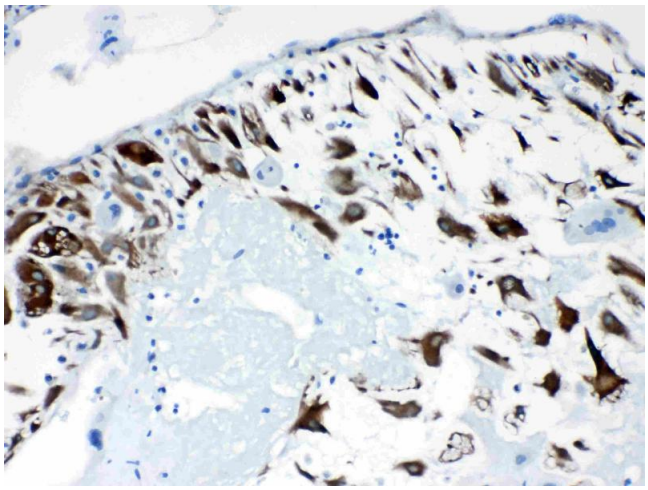
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL

Handling

Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg 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:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



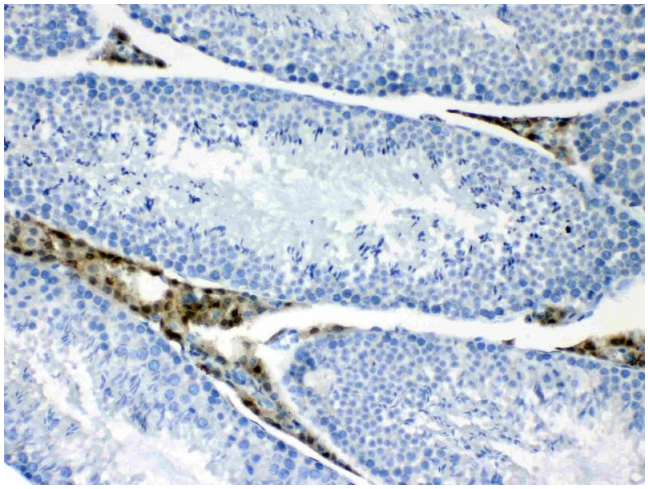
Immunohistochemistry

Image 1. IHC analysis of CPI17 alpha using anti- CPI17 alpha antibody . CPI17 alpha was detected in paraffin-embedded section of human placenta tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti- CPI17 alpha Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

Western Blotting

Image 2. Western blot analysis of CPI17 alpha using anti-CPI17 alpha antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates, Lane 3: PANC-1 whole Cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at

150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- CPI17 alpha antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for CPI17 alpha at approximately 20KD. The expected band size for CPI17 alpha is at 20KD.



Immunohistochemistry

Image 3. IHC analysis of CPI17 alpha using anti- CPI17 alpha antibody . CPI17 alpha was detected in paraffin-embedded section of mouse testis tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti- CPI17 alpha Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

Please check the product details page for more images. Overall 6 images are available for ABIN5518865.