Datasheet for ABIN5518864

anti-PPIA antibody (AA 116-165)

8 Images

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Overview

Quantity:	100 µg
Target:	PPIA
Binding Specificity:	AA 116-165
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PPIA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Peptidyl-prolyl cis-trans isomerase A(PPIA) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human Cyclophilin A recombinant protein (Position: T116-E165). Human Cyclophilin A shares 98% and 95.9% amino acid (aa) sequence identity with mouse and rat Cyclophilin A, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Peptidyl-prolyl cis-trans isomerase A(PPIA) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: peptidylprolyl isomerase A (cyclophilin A) Protein Name: Peptidyl-prolyl cis-trans isomerase A

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	PPIA
Alternative Name:	PPIA (PPIA Products)
Background:	Cyclophilin A (PPIA), Peptidylprolyl isomerase A, is an enzyme that in humans is encoded by the PPIA gene. Using chromosome 7 and chromosome 10 deletion hybrid panels, the PPIA coding gene is localized to 7p13-p11.2. This gene encodes a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. Cyclophilin A is also a member of the immunophilin class of proteins that all possess peptidyl-prolyl cis/trans isomerase activity and are believed to be involved in protein folding and/or intracellular protein transport. And Cyclophilin A binds to the Gag protein of human immunodeficiency virus type 1 (HIV-1). Additionally, Cyclophilin A may have an essential function in HIV-1 replication.may have an essential function in HIV-1 replication. Synonyms: Cyclophilin A | CyclophilinA | CYPA | CYPH | HEL S 69p | PPIA | PPIase A | Rotamase A | RotamaseA | P62937
Gene ID:	5478
UniProt:	P62937

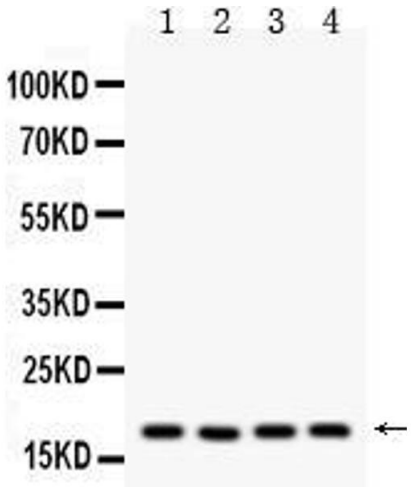
Application Details

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
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.

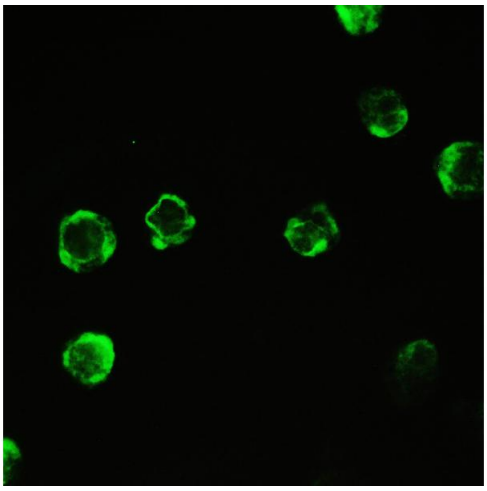
Images



Western Blotting

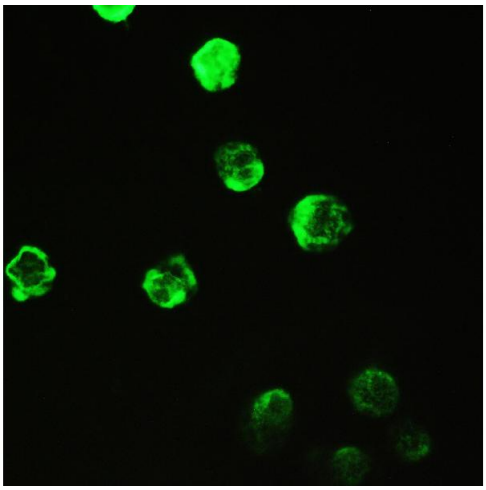
Image 1. Western blot analysis of Cyclophilin A using anti-Cyclophilin A antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat lung tissue lysates, Lane 2: rat brain tissue lysates, Lane 3: mouse lung tissue lysates, Lane 4: HELA 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-Cyclophilin A 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 Cyclophilin A at approximately 18KD. The expected band size for Cyclophilin A is at 18KD.



Immunohistochemistry

Image 2. IHC analysis of Cyclophilin A using anti-Cyclophilin A antibody . Cyclophilin A was detected in immunocytochemical section of THP-1 cell. 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 2µg/ml rabbit anti-Cyclophilin A Antibody overnight at 4°C. DyLight®488 Conjugated Avidin was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1094) with DAB as the chromogen.



Immunohistochemistry

Image 3. IHC analysis of Cyclophilin A using anti-Cyclophilin A antibody . Cyclophilin A was detected in immunocytochemical section of THP-1 cell. 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 2µg/ml rabbit anti-Cyclophilin A Antibody overnight at 4°C. DyLight®488 Conjugated Avidin was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1094) with DAB as the chromogen.

Please check the product details page for more images. Overall 8 images are available for ABIN5518864.