

Product datasheet

Anti-PRUNE antibody ab237518

5 Images

Overview

Product name	Anti-PRUNE antibody
Description	Rabbit polyclonal to PRUNE
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human PRUNE aa 1-168. Database link: Q86TP1
Positive control	WB: HepG2, MCF7 and Jurkat whole cell lysate (ab7899). IHC-P: Human small intestine and lung tissue. ICC/IF: HepG2 cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.4 Preservative: 0.03% Proclin Constituents: PBS, 50% Glycerol
Purity	Protein G purified
Purification notes	Purity >95%
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab237518** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

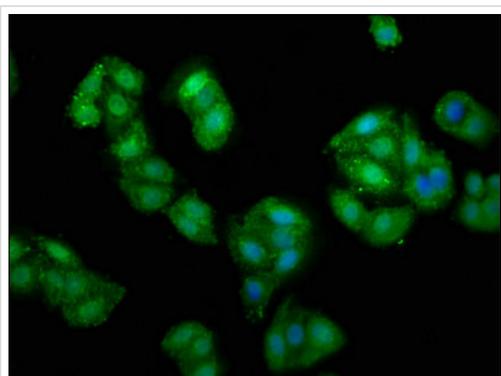
Application	Abreviews	Notes
WB		1/1000 - 1/5000. Predicted molecular weight: 50 kDa.

Application	Abreviews	Notes
IP		1/200 - 1/2000.
IHC-P		1/20 - 1/500.
ICC/IF		1/50 - 1/200.

Target

Function	Phosphodiesterase (PDE) that has higher activity toward cAMP than cGMP, as substrate. Plays a role in cell proliferation, is able to induce cell motility and acts as a negative regulator of NME1.
Tissue specificity	Ubiquitously expressed. Seems to be overexpressed in aggressive sarcoma subtypes, such as leiomyosarcomas and malignant fibrous histiocytomas (MFH) as well as in the less malignant liposarcomas.
Sequence similarities	Belongs to the PPase class C family. Prune subfamily.
Cellular localization	Cytoplasm. Nucleus. Cell junction > focal adhesion. In some transfected cells a nuclear staining is also observed.

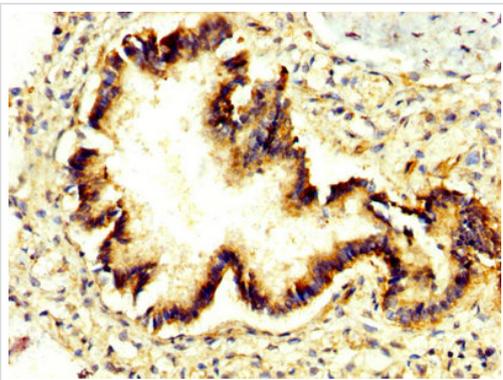
Images



Immunocytochemistry/ Immunofluorescence - Anti-PRUNE antibody (ab237518)

HepG2 (human liver hepatocellular carcinoma cell line) cells stained for PRUNE (green) using ab237518 at 1/135 dilution in ICC/IF, followed by Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG (H+L) secondary antibody.

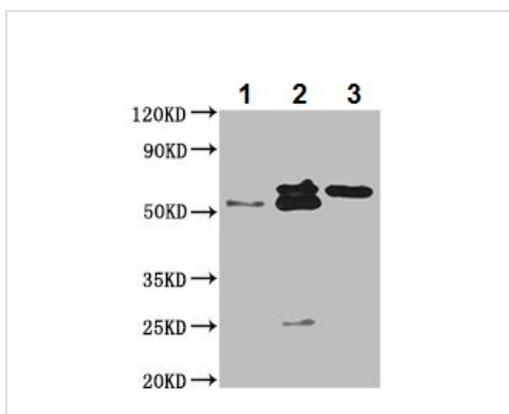
The cells were fixed in 4% formaldehyde, permeabilized tissue using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Counterstained with DAPI.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRUNE antibody (ab237518)

Paraffin-embedded human lung tissue stained for PRUNE using ab237518 at 1/300 dilution in immunohistochemical analysis.

After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized tissue using an HRP conjugated SP system.



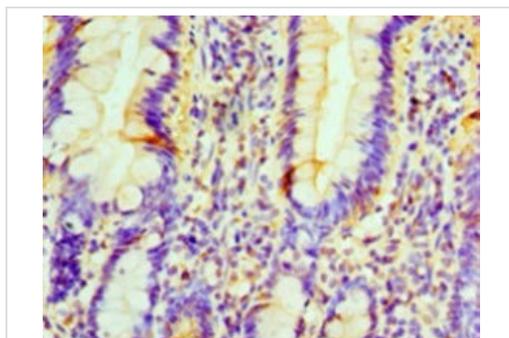
Immunoprecipitation - Anti-PRUNE antibody (ab237518)

PRUNE was immunoprecipitated from 500 µg HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000).

Lane 1: Rabbit control IgG instead of ab237518 in HepG2 whole cell lysate.

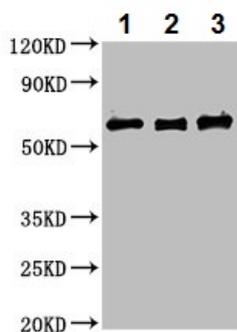
Lane 2: ab237518 IP in HepG2 whole cell lysate

Lane 3: HepG2 whole cell lysate 10 µg (Input)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRUNE antibody (ab237518)

Paraffin-embedded human small intestine tissue stained for PRUNE using ab237518 at 1/100 dilution in immunohistochemical analysis.



Western blot - Anti-PRUNE antibody (ab237518)

All lanes : Recombinant Mouse CTLA4 protein (Tagged) (ab235718) at 1/1000 dilution

Lane 1 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate

Lane 2 : MCF7 (human breast adenocarcinoma cell line) whole cell lysate

Lane 3 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate

Secondary

All lanes : Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 50 kDa

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