abcam

ab249133

Anti-Palladin antibody [EPR9460(B)] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR9460(B)
Purification technique	Affinity purification
Concentration	1.025 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Not recommended

Species	Human
Dilution info	-

Notes	-

IP

Not recommended

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information PALLD

Function	Cytoskeletal protein required for organization of normal actin cytoskeleton. Roles in establishing cell morphology, motility, cell adhesion and cell-extracellular matrix interactions in a variety of cell types. May function as a scaffolding molecule with the potential to influence both actin polymerization and the assembly of existing actin filaments into higher-order arrays. Binds to proteins that bind to either monomeric or filamentous actin. Localizes at sites where active actin remodeling takes place, such as lamellipodia and membrane ruffles. Different isoforms may have functional differences. Involved in the control of morphological and cytoskeletal changes associated with dendritic cell maturation. Involved in targeting ACTN to specific subcellular foci.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab249133 is the carrier-free version of ab154827.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody

preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Palladin is a cytoskeletal protein that plays an important role in maintaining cell structure and function. It is often referred to simply by its name and it has a molecular weight of approximately 90 to 140 kDa depending on its isoform. Palladin is expressed in a variety of tissues but shows a higher presence in cells such as fibroblasts smooth muscle cells and cardiac tissues. This protein interacts with numerous actin-associated proteins and contributes to the organization of the actin cytoskeleton by promoting actin polymerization.
Biological function summary	Palladin interacts with at least four actin-binding proteins to influence cellular processes such as motility and adhesion. Palladin often forms part of larger protein complexes that regulate the cytoskeleton. Through these interactions it contributes to the maintenance of cell shape and the mechanical stability of cells. Palladin’s role extends to influencing cell signaling pathways that regulate cell movement and structural integrity.
Pathways	Researchers connect palladin functions with cytoskeletal organization and cell signaling. It participates in pathways that involve the RhoA signaling pathway and the mechanotransduction pathway. Palladin interacts closely with proteins such as profilin and VASP synergistically influencing actin polymerization. These interactions are important for various cellular activities such as migration and morphogenesis.
Associated diseases and disorders	Researchers have found palladin to be linked with conditions such as cancer and certain fibrosis. Altered expression levels of palladin can lead to enhanced metastatic potential in cancer cells. Additionally it exhibits associations with BRCA1 in breast cancer where mutations can alter cytoskeletal dynamics thereby affecting cell proliferation and migration. Palladin's overexpression is also observed in pancreatic cancer connecting it to actin-associated proteins that influence disease progression.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

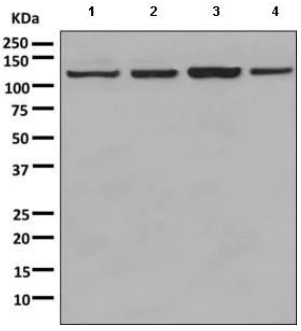
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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1 product image



Western blot - Anti-Palladin antibody [EPR9460(B)] - BSA and Azide free (ab249133)

Palladin Western blot staining using rabbit Anti-Palladin antibody

This data was developed using ab154827, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-Palladin antibody [EPR9460(B)] (ab154827) at 1/1000 dilution

Lane 1:
HeLa cell lysate at 10 µg

Lane 2:
293T cell lysate at 10 µg

Lane 3:
PC3 cell lysate at 10 µg

Lane 4:
Caco-2 cell lysate at 10 µg

Secondary

All lanes:
Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 151 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.