abcam

ab248697

Anti-cadherin 10 antibody [EPR5115] - 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	EPR5115
Purification technique	Affinity purification Protein A
Concentration	1.025 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-

Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-

Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information CDH10

Function	Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types.

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

ab248697 is the carrier-free version of ab134137.

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	Cadherin-10 often referred to as CDH10 is a member of the classical cadherin family which are vital components of calcium-dependent cell-cell adhesion. This protein is approximately 98 kDa in mass. CDH10 is expressed widely in the central nervous system and is also present in other tissues such as the pancreas and kidney. The cadherin family plays a significant role in mediating homophilic interactions between cells influencing tissue architecture and integrity.
Biological function summary	Cadherin-10 assists in maintaining precise cellular recognition and adhesion. It is particularly involved in the development and maintenance of neural circuits suggesting its involvement in the complexity of brain network formation. Cadherin-10 operates as part of adhesion complexes interacting with cytoplasmic components that link to the actin cytoskeleton thereby influencing cell signaling pathways and cellular communication.
Pathways	Cadherin-10 contributes significantly to the Wnt signaling pathway and adherens junction pathways. These pathways are critical for processes such as cellular differentiation migration and organization. Cadherin-10 has related interactions with proteins like beta-catenin within these pathways which facilitates signal transduction and cell structural integrity.
Associated diseases and disorders	Alterations in cadherin-10 can affect neurological and developmental conditions. Mutations or dysregulation of CDH10 have associations with autism spectrum disorders impacting neural communication genes. Similarly changes in cadherin-10 expressions also show connections to manic disorders implying a role in emotional regulation pathways linked to neuropsychiatric proteins such as N-cadherin and synaptic adhesion molecules.

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.

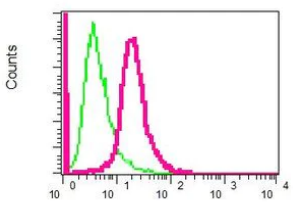
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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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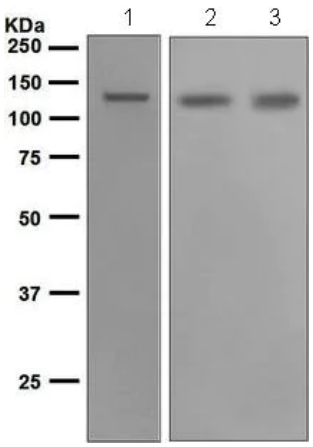
2 product images



Flow Cytometry (Intracellular) - Anti-cadherin 10 antibody [EPR5115] - BSA and Azide free (ab248697)

Cadherin 10 Flow Cytometry (Intracellular) staining using rabbit Anti-cadherin 10 antibody

This data was developed using ab134137, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of permeabilised U-87 MG cells labelling cadherin 10 with ab134137 at 1/10 dilution (red) or rabbit IgG negative (green).



Western blot - Anti-cadherin 10 antibody [EPR5115] - BSA and Azide free (ab248697)

Cadherin 10 Western blot staining using rabbit Anti-cadherin 10 antibody

This data was developed using ab134137, the same antibody clone in a different buffer formulation. The expression profile observed is consistent with what has been described in the literature PMID: 16181616
All lanes:
Western blot - Anti-cadherin 10 antibody [EPR5115] (ab134137) at 1/1000 dilution

Lane 1:
Human fetal brain lysate at 10 µg

Lane 2:
U-87 MG lysate at 10 µg

Lane 3:

Human fetal lung lysate at 10 µg

Secondary

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

Predicted band size: 88 kDa

Observed band size: 115-130 kDa

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