abcam

ab180121

Anti-ZNF24 antibody [EPR13975]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR13975
Purity	Tissue culture supernatant

Reactivity data

WB

Tested

Species	Human
Dilution info	1/2000 - 1/10000
Notes	-

Predicted

Species	Mouse, Rat

Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/10
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information ZNF24

Function	Transcription factor required for myelination of differentiated oligodendrocytes. Required for the conversion of oligodendrocytes from the premyelinating to the myelinating state. In the developing central nervous system (CNS), involved in the maintenance in the progenitor stage by promoting the cell cycle. Specifically binds to the 5'-TCAT-3' DNA sequence (By similarity). Has transcription repressor activity in vitro.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C

Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

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.

Supplementary info

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

Activity summary	ZNF24 also known as zinc finger protein 191 is a transcription factor with a molecular weight of approximately 55 kDa. It functions by binding to specific DNA sequences through its zinc finger domains thereby influencing the transcription of genes. The expression of ZNF24 occurs in various tissues including the liver lung and brain suggesting its role in multiple cellular processes. This protein plays a significant role in gene regulation due to its ability to bind DNA and modulate the expression of specific genes.
Biological function summary	Zinc finger protein 191 regulates cell proliferation differentiation and development. It does not typically form part of a larger protein complex acting mostly as a solitary transcription factor. By influencing the expression of genes involved in cell cycle progression and differentiation ZNF24 contributes to maintaining cellular homeostasis. Alterations in its expression can affect these biological processes leading to various cellular dysfunctions and abnormalities.
Pathways	Zinc finger protein 191 plays a role in the Wnt signaling and cell cycle pathways. In the Wnt signaling pathway ZNF24 modulates the transcription of target genes that are essential for cell proliferation and differentiation. In the cell cycle pathway it interacts directly with proteins such as cyclins and cyclin-dependent kinases which are important for the control of cell cycle transitions. This involvement in key signaling pathways highlights its importance in regulating cellular growth and division.
Associated diseases and disorders	Zinc finger protein 191 has been linked to cancer and neurodegenerative diseases. In cancer ZNF24 dysregulation can lead to uncontrolled cell proliferation as it interacts with proteins like β-catenin within the Wnt signaling pathway. In

neurodegenerative diseases the altered expression of ZNF24 affects neuronal cell function as it potentially interacts with amyloid precursor proteins disrupting normal neuronal processes. These connections indicate the potential implications of ZNF24 in both oncogenesis and neurodegenerative conditions.

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

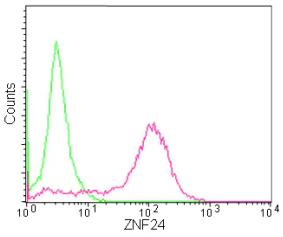
We do not recommend this combination. It is not covered by our product promise.

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.

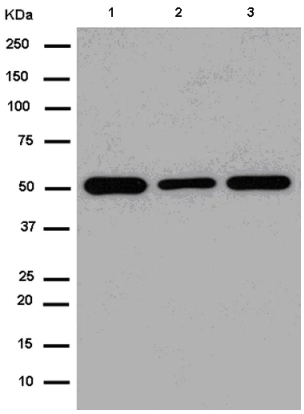
2 product images



Flow Cytometry (Intracellular) - Anti-ZNF24 antibody [EPR13975] (ab180121)

ZNF24 Flow Cytometry (Intracellular) staining using rabbit Anti-ZNF24 antibody

Intracellular flow cytometric analysis of HeLa cells (paraformaldehyde-fixed, 2%) labeling ZNF24with ab180121 at 1/10 dilution (red) or a rabbit IgG (negative) (green), followed by secondary Goat anti rabbit IgG (FITC) at 1/75 dilution. Isotype control Rabbit IgG.



Western blot - Anti-ZNF24 antibody [EPR13975] (ab180121)

All lanes:
Western blot - Anti-ZNF24 antibody [EPR13975] (ab180121) at 1/10000 dilution

Lane 1:
Jurkat cell lysate at 20 µg

Lane 2:
HeLa cell lysate at 20 µg

Lane 3:
293 cell lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 42 kDa

Observed band size: 50 kDa

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