abcam

ab250832

Anti-ZFY antibody [EPR11074] - 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	EPR11074
Purification technique	Affinity purification Protein A
Specificity	This antibody may cross-react with ZFX based on homology search showing these proteins (ZFX and ZFY) are 96% identical.

Reactivity data

WB

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	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 ZFY

Function	Probable transcriptional activator. Binds to the consensus sequence 5'-AGGCCY-3'.

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

ab250832 is the carrier-free version of ab185541.

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	The ZFY protein also known as Zinc Finger Protein Y-linked is a transcription factor with a mass of approximately 69 kDa. It originates from the Y chromosome and is expressed mainly in male-specific tissues such as the testes. The protein contains C2H2-type zinc finger domains which facilitate its ability to bind DNA and modulate the transcription of specific genes. Its positioning on the Y chromosome links it directly to male-related biological processes.
Biological function summary	ZFY influences gene expression by binding to specific DNA sequences which impacts cellular development and differentiation. As a transcription factor it often works alone rather than as part of a larger complex. In certain contexts it plays a role in male sex determination and spermatogenesis suggesting its importance in regulating genes important for male germ cell development.
Pathways	ZFY plays a significant role in the sex differentiation pathway and spermatogenesis pathway. It interacts with other Y chromosome-encoded proteins like SRY which is important for initiating male sex determination. Moreover juxtaposing proteins such as SOX9 also engage in the pathways where ZFY exerts influence although ZFY mainly functions independently.

Associated diseases and disorders	ZFY has connections with infertility in males and certain sex chromosome disorders. Researchers link defects or aberrant expression of ZFY to male infertility due to its critical role in spermatogenesis. Additionally it associates with Turner's syndrome when aberrations in its expression occur highlighting its interaction with other Y chromosome-related proteins including TSPY.

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

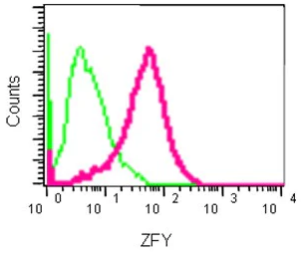
We do not recommend this combination. It is not covered by our product promise.

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.

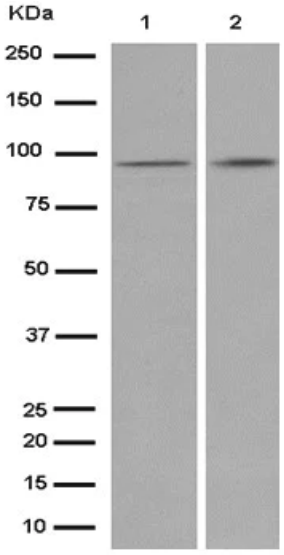
3 product images



Flow Cytometry (Intracellular) - Anti-ZFY antibody [EPR11074] - BSA and Azide free (ab250832)

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

This data was developed using ab185541, the same antibody clone in a different buffer formulation.
Intracellular Flow Cytometry analysis of 2% paraformaldehyde fixed HepG2 cells labeling ZFY with ab185541 at 1/220 dilution (pink) or a rabbit IgG isotype control (green), followed by secondary Goat anti rabbit IgG (FITC) at 1/150 dilution.



Western blot - Anti-ZFY antibody [EPR11074] - BSA and Azide free (ab250832)

This data was developed using ab185541, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-ZFY antibody [EPR11074] (ab185541) at 1/1000 dilution

Lane 1:
Jurkat lysate at 10 µg

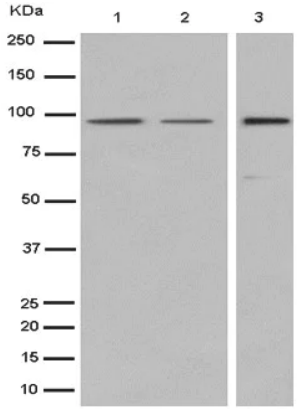
Lane 2:
Human fetal brain lysate at 10 µg

Secondary

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

Predicted band size: 90 kDa

Observed band size: 91 kDa



Western blot - Anti-ZFY antibody [EPR11074] - BSA and Azide free (ab250832)

This data was developed using ab185541, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-ZFY antibody [EPR11074] (ab185541) at 1/5000 dilution

Lane 1:
293T cell lysate at 10 µg

Lane 2:
A549 cell lysate at 10 µg

Lane 3:
HepG2 cell lysate at 10 µg

Secondary

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

Predicted band size: 90 kDa

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