abcam

ab249180

Anti-ZFYVE19 antibody [EPR9789] - 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	EPR9789
Purification technique	Affinity purification Protein A

Reactivity data

IP

Not recommended

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information ZFYVE19

Function Key regulator of abscission step in cytokinesis: part of the cytokinesis checkpoint, a process required to delay abscission to prevent both premature resolution of intercellular chromosome bridges and accumulation of DNA damage. Together with CHMP4C, required to retain abscission-competent VPS4 (VPS4A and/or VPS4B) at the midbody ring until abscission checkpoint signaling is terminated at late

cytokinesis. Deactivation of AURKB results in dephosphorylation of CHMP4C followed by its dissociation from ZFYVE19/ANCHR and VPS4 and subsequent abscission.

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

ab249180 is the carrier-free version of ab155085.

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	ZFYVE19 also known as Zinc Finger FYVE-type Containing 19 or ANKFY1 is a protein characterized by the presence of an FYVE domain and ankyrin repeats. This protein has a molecular mass of approximately 104 kDa. ZFYVE19 is expressed broadly in human tissues with high expression levels in the testis brain and heart. Mechanically it plays a pivotal role in vesicular trafficking where the FYVE domain is often involved in binding phosphatidylinositol 3-phosphate on endosomal membranes assisting in the regulation of endosomal-lysosomal sorting.
Biological function summary	This protein plays a significant role in cellular processes related to membrane trafficking and endocytosis. It often participates in protein complexes related to intracellular transport ensuring proper vesicular movements within the cell. ZFYVE19 is known to associate with various molecules that facilitate

	communication between different cellular compartments. These interactions are essential for cellular homeostasis and affect diverse processes such as signal transduction and nutrient uptake.
Pathways	ZFYVE19 integrates itself in the endosomal-lysosomal pathway and the phosphoinositide signaling pathway. These pathways are important for maintaining cellular lipid homeostasis and endosome maturation. In its function ZFYVE19 interacts with proteins such as EEA1 a well-known early endosome antigen and RAB5A a small GTPase that regulates endocytic vesicle fusion. These interactions help orchestrate the dynamics of membrane trafficking and signal transduction.
Associated diseases and disorders	Disruptions in ZFYVE19 function have been associated with neurodegenerative diseases and certain cancers. In the context of neurodegenerative diseases a malfunction in endosomal-lysosomal sorting can lead to the accumulation of cellular debris similar to defects observed in disorders like Alzheimer's disease. ZFYVE19's interplay with clathrin which is critical for endocytosis can influence tumorigenesis with alterations in this process contributing to oncogenic transformations in some forms of cancer. Understanding the roles played by ZFYVE19 in these diseases provides insight into potential therapeutic targets.

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

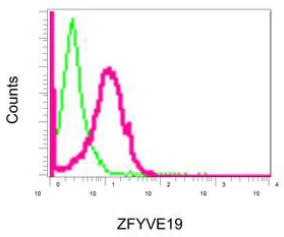
We do not recommend this combination. It is not covered by our product promise.

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.

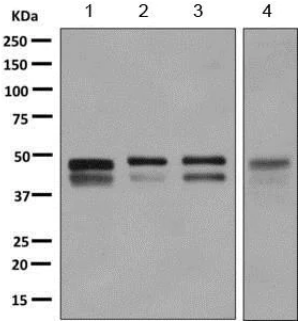
2 product images



Flow Cytometry (Intracellular) - Anti-ZFYVE19 antibody [EPR9789] - BSA and Azide free (ab249180)

ZFYVE19 Flow Cytometry (Intracellular) staining using rabbit Anti-ZFYVE19 antibody

This data was developed using ab155085, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of permeabilized MCF7 cells labeling ZFYVE19 with ab155085 at 1/10 dilution (red) compared with a Rabbit IgG negative control (green).



Western blot - Anti-ZFYVE19 antibody [EPR9789] - BSA and Azide free (ab249180)

This data was developed using ab155085, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-ZFYVE19 antibody [EPR9789] (ab155085) at 1/1000 dilution

Lane 1:
MCF7 cell lysate at 10 µg

Lane 2:
BxPC3 cell lysate at 10 µg

Lane 3:
Raji cell lysate at 10 µg

Lane 4:
Human fetal liver lysate at 10 µg

Secondary

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

Predicted band size: 52 kDa

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