abcam

ab155085

Anti-ZFYVE19 antibody [EPR9789]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 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	EPR9789
Purification technique	Affinity purification Protein A
Concentration	0.173 - 0.179 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
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	1/10 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

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	Conditional Ambient
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C

Notes

Species reactivity
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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	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.

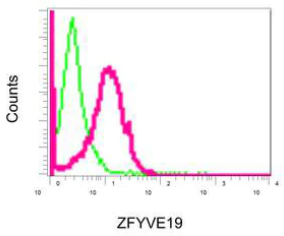
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

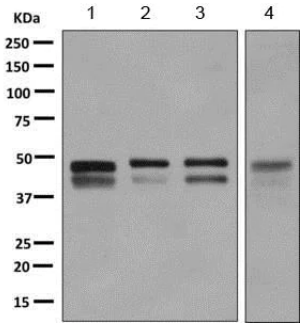
2 product images



Flow Cytometry (Intracellular) - Anti-ZFYVE19 antibody [EPR9789] (ab155085)

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

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] (ab155085)

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'.