

Anti-ZFYVE19 Antibody

Catalog # AP53381

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q96K21
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51546

Additional Information

Gene ID	84936
Other Names	MPFYVE; Zinc finger FYVE domain-containing protein 19; MLL partner containing FYVE domain
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ZFYVE19. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	ZFYVE19
Synonyms	ANCHR, MPFYVE
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.
Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cleavage furrow. Midbody, Midbody ring. Note=Localizes mainly on centrosomes in interphase and early mitosis. Localizes at the cleavage furrow and midbody ring in late mitosis and cytokinesis

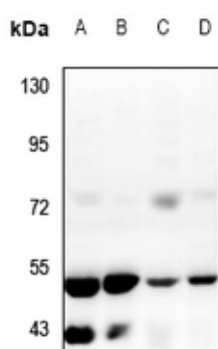
Tissue Location

Detected in brain, heart, skeletal muscle and kidney (PubMed:12618766).
Expressed in the liver (at protein level) (PubMed:12618766,
PubMed:32737136).

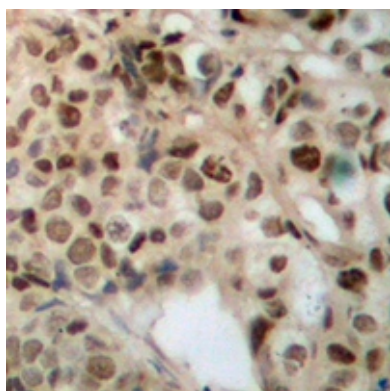
References

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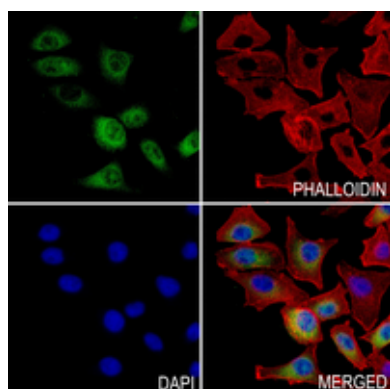
Images



Western blot analysis of ZFYVE19 expression in A549 (A), MCF7 (B), HEK293T (C), LO2 (D) whole cell lysates. (Predicted band size: 51 kD; Observed band size: 50 kD)



Immunohistochemical analysis of ZFYVE19 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of ZFYVE19 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).