

FYVE-CENT Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 285	Source/Isotype: Rabbit	UniProt ID: #Q68DK2	Entrez-Gene Id: 23503
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

FYVE-CENT Antibody recognizes endogenous levels of total FYVE-CENT protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu595 of human FYVE-CENT protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

FYVE-CENT (ZFYE26) contains an FYVE zinc finger domain characterized by conserved R(R/RK) and HHCRxCG motifs (1). Phosphatidylinositol 3 phosphate binds to FYVE-CENT via the FYVE domain and this binding is crucial in phosphoinositide (PtdIns3P)-regulated cytokinesis (1-3). Research evidence suggests that during cytokinesis, FYVE-CENT directly interacts with TTC19 and is recruited to the midbody by the kinesin protein KIF13A (4). FYVE-CENT may also be involved in the tumor suppressor function of Beclin-1 (5). Researchers have linked the defects in FYVE-CENT to hereditary spastic paraplegia, a condition characterized by deterioration of the corpus callosum of the brain (6).

Background References

1. Stenmark, H. and Aasland, R. (1999) *J Cell Sci* 112 (Pt 23), 4175-83.
2. Stenmark, H. et al. (2002) *FEBS Lett* 513, 77-84.
3. Gaullier, J.M. et al. (1999) *Chem Phys Lipids* 98, 87-94.
4. Sagona, A.P. et al. (2011) *PLoS One* 6, e17086.
5. Sagona, A.P. et al. (2010) *Nat Cell Biol* 12, 362-71.
6. Denora, P.S. et al. (2009) *J Neurol Sci* 277, 22-5.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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