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F122A Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14015c

Product Information

Application	WB, E
Primary Accession	Q96E09
Other Accession	Q6AYT4, Q9DB52, NP_612206.3
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33991
Calculated MW	30529
Antigen Region	108-136

Additional Information

Gene ID	116224
Other Names	Protein FAM122A, FAM122A, C9orf42
Target/Specificity	This F122A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 108-136 amino acids from the Central region of human F122A.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	F122A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PABIR1 {ECO:0000303|PubMed:33108758, ECO:0000312|HGNC:HGNC:23490}
Function	Acts as an inhibitor of serine/threonine-protein phosphatase 2A (PP2A) activity (PubMed:27588481, PubMed:33108758, PubMed:38123684). Inhibits

PP2A activity by blocking the substrate binding site on PPP2R2A and the active site of PPP2CA (PubMed:38123684). Potentiates ubiquitin-mediated proteasomal degradation of serine/threonine-protein phosphatase 2A catalytic subunit alpha (PPP2CA) (PubMed:27588481). Inhibits PP2A-mediated dephosphorylation of WEE1, promoting ubiquitin- mediated proteolysis of WEE1, thereby releasing G2/M checkpoint (PubMed:33108758).

Cellular Location

Nucleus. Cytoplasm. Note=The CHEK1-mediated Ser-37 phosphorylated form is sequestered by 14-3-3 proteins in the cytoplasm and fails to translocate to the nucleus, where it otherwise inhibits serine/threonine-protein phosphatase 2A.

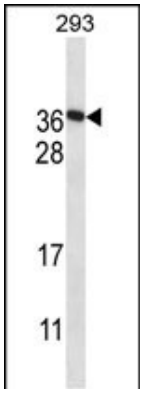
Background

The exact function of this protein remains unknown.

References

Kottgen, A., et al. Nat. Genet. 42(5):376-384(2010)
Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
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Images



F122A Antibody (Center) (Cat. #AP14015c) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the F122A antibody detected the F122A protein (arrow).

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