10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FAM122A Rabbit pAb

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Catalog # AP55681

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96E09
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30529
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FAM122A
Epitope Specificity	41-140/287
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Chromosome 9 consists of about 145 million bases and 4% of the human genome and encodes nearly 900 genes. Considered to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, is associated with the chromosome 9 gene encoding endoglin protein, ENG. Familial dysautonomia is also associated with chromosome 9 though through the gene IKBKAP. Notably, chromosome 9 encompasses the largest interferon family gene cluster. Chromosome 9 is partnered with chromosome 22 in the translocation leading to the aberrant production of BCR-ABL fusion protein often found in leukemias. The FAM122A gene product has been provisionally designated FAM122A pending further characterization.

Additional Information

Gene ID	116224
Other Names	PPP2R1A-PPP2R2A-interacting phosphatase regulator 1 {ECO:0000303|PubMed:33108758, ECO:0000312|HGNC:HGNC:23490}, PABIR family member 1, PABIR1 {ECO:0000303|PubMed:33108758, ECO:0000312|HGNC:HGNC:23490}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

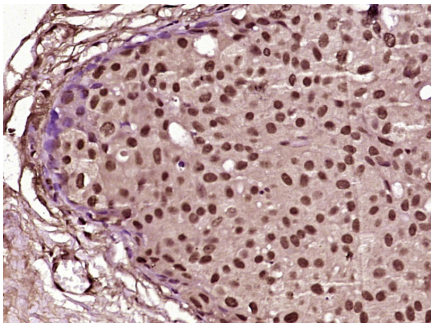
Protein Information

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

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Images



Paraformaldehyde-fixed, paraffin embedded (Human breast carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FAM122A) Polyclonal Antibody, Unconjugated (AP55681) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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