Rabbit PPP1CC Polyclonal Antibody | anti-PPP1CC antibody

Anti-PPP1CC Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255107	**Rabbit**	**HumanPredicted to React with: Mouse, Rat, Bovine, Xenopus tropicalis (Species predicted to react based on 100% sequence homology)**	**Immunofluorescence, Immunocytochemistry, Western Blot**

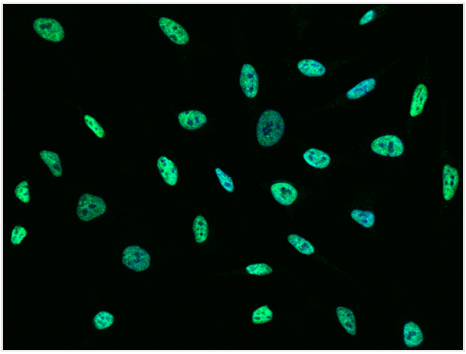
PRODUCT SYNONYMS

PPP1CC; Polyclonal Antibody; Anti-PPP1CC Antibody; Rabbit Polyclonal; PPP1CC Antibody; Rabbit PAb; Antigen Affinity Purified; protein phosphatase 1; catalytic subunit; gamma isozyme; Anti-PP-1G Antibody; Anti-PP1C Antibody; Anti-PPP1G Antibody; anti-PPP1CC antibody

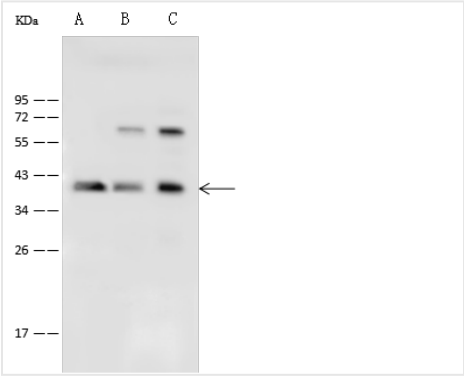
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted to React with: Mouse, Rat, Bovine, Xenopus tropicalis (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PPP1CC
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-PPP1CC antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the center region of the Human PPP1CC
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human PPP1CC, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of PPP1CC in HeLa cells. Cells were fixed with 4% PFA, permeabilzed with 0.1% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-human PPP1CC polyclonal antibody (dilution ratio 1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue).Positive staining was localized to Nucleus.



WB (Western Blot)
Anti-PPP1CC rabbit polyclonal antibody at 1:500 dilutionLane A: 293T Whole Cell LysateLane B: HepG2 Whole Cell LysateLane C: HeLa Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.Developed using the ECL technique.Performed under reducing conditions.Predicted band size:37 kDaObserved band size:37 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-PPP1CC antibody	Protein phosphatase 1, catalytic subunit, gamma isozyme (PPP1CC) participates in cell proliferation, differentiation, and apoptosis. Using fluorescent in situ hybridization (FISH) method, a gene encoding the catalytic subunit of protein phosphatase type 1 gamma (PPP1CC) was mapped to human 12q24.1-q24.2, rat 7 q22, and mouse 10C. These results indicate that the PPP1CC is a member of the conserved synteny group between rat chromosome 7, mouse chromosome 10, and human chromosome 12. The Ppp1cc gene encodes two alternatively spliced variants, PP1 gamma1 (PPP1CC1) and PP1 gamma2 (PPP1CC2). Global deletion of the Ppp1cc gene, which causes loss of both isoforms, results in male infertility due to impaired spermatogenesis. This phenotype was assumed to be due to the loss of PPP1CC2, which is abundant in testis. While PPP1CC2 is predominant, other PP1 isoforms are also expressed in testis.
References	Sinha N, et al. (2013) Selective ablation of ppp1cc gene in testicular germ cells causes oligo-teratozoospermia and infertility in mice. Biol Reprod 89 (5): 128.Saadat M, et al. (1996) Assignment of the gene encoding type 1 gamma protein phosphatase catalytic subunit (ppp1cc) on human, rat, and mouse chromosomes. Jpn J Hum Genet 41 (1): 159-165.MacLeod G, et al. (2014) Ppp1cc2 can form a kinase/phosphatase complex with the testis-specific proteins tssk1 and tsks in the mouse testis. Reproduction 147 (1): 1-12.Liu X, et al. (2017) Ppp1cc is associated with astrocyte and microglia proliferation after traumatic spinal cord injury in rats. Pathol Res Pract 213 (11): 1355-1364.

NCBI AND UNIPROT INFORMATION

NCBI GI #	548573
NCBI GeneID	5501
UniProt Accession #	P36873
Molecular Weight	323
NCBI Official Full Name	Serine/threonine-protein phosphatase PP1-gamma catalytic subunit
NCBI Official Synonym Full Names	protein phosphatase 1, catalytic subunit, gamma isozyme
NCBI Official Symbol	PPP1CC
NCBI Official Synonym Symbols	PP1C; PP-1G; PPP1G
NCBI Protein Information	serine/threonine-protein phosphatase PP1-gamma catalytic subunit; serine/threonine phosphatase 1 gamma; protein phosphatase 1C catalytic subunit; protein phosphatase 1, catalytic subunit, gamma isoform
UniProt Protein Name	Serine/threonine-protein phosphatase PP1-gamma catalytic subunit
UniProt Gene Name	**PPP1CC**

UniProt Synonym Gene Names	PP-1G
UniProt Entry Name	PP1G_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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