

Rabbit PPP2R5C Polyclonal Antibody | anti-PPP2R5C antibody

PPP2R5C Antibody

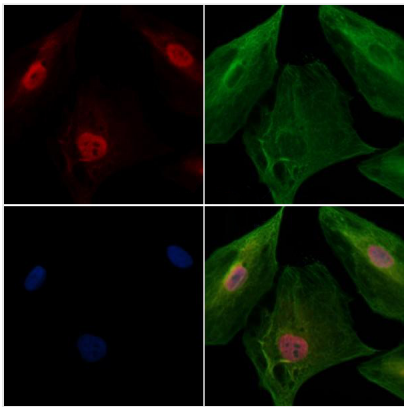
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31265	Rabbit	Human, Rat Predicted Reactivity: Rabbit(88%)	ELISA

PRODUCT SYNONYMS

PPP2R5C; Polyclonal Antibody; PPP2R5C Antibody; 2A5G_HUMAN; B' alpha regulatory subunit; B56G; KIAA0044; MGC23064; PP2A B subunit B' gamma isoform; PP2A B subunit B56 gamma isoform; PP2A B subunit isoform B' gamma; PP2A B subunit isoform B"-gamma; PP2A B subunit isoform B56-gamma; PP2A B subunit isoform PR61-gamma; PP2A B subunit isoform R5-gamma; PP2A B subunit PR61 gamma isoform; PP2A B subunit R5 gamma isoform; Ppp2r5c; PR61G; Protein phosphatase 2 regulatory subunit B (B56) gamma isoform; Protein phosphatase 2 regulatory subunit B' gamma; Protein phosphatase 2; regulatory subunit B'; gamma isoform; Renal carcinoma antigen NY REN 29; Renal carcinoma antigen NY-REN-29; Serine/threonine protein phosphatase 2A 56 kDa regulatory subunit gamma isoform; Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit gamma isoform; anti-PPP2R5C antibody

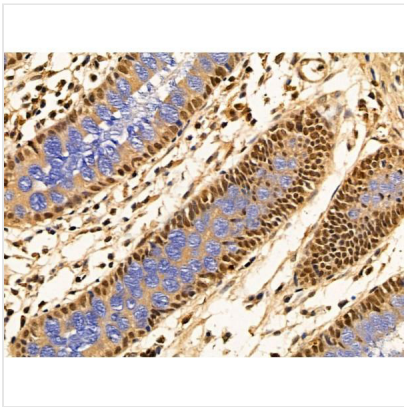
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat Predicted Reactivity: Rabbit(88%)
Clonality	Polyclonal
Isotype	IgG
Specificity	PPP2R5C Antibody detects endogenous levels of total PPP2R5C.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	524
Applicable Applications for anti-PPP2R5C antibody	ELISA
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:100-1:500 ICC: 1:100-1:500 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human PPP2R5C, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



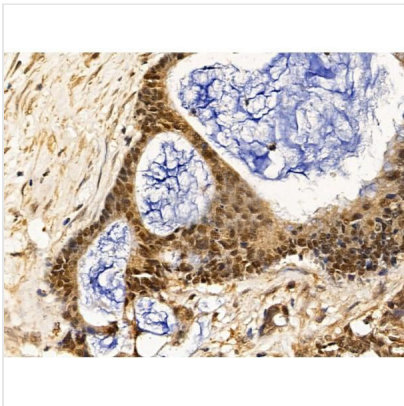
IF (Immunofluorescence)

AAA31265 staining A549 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA31265) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI (blue).



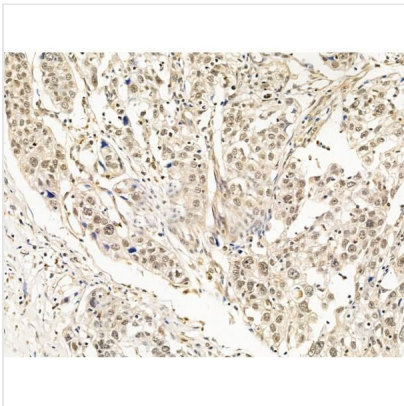
IHC (Immunohistochemistry-Paraffin)

AAA31265 at 1/100 staining Human esophageal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



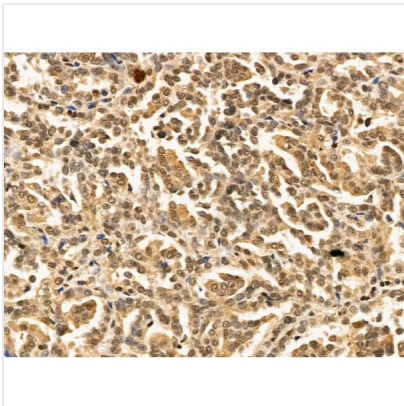
IHC (Immunohistochemistry-Paraffin)

AAA31265 at 1/100 staining Human colorectal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



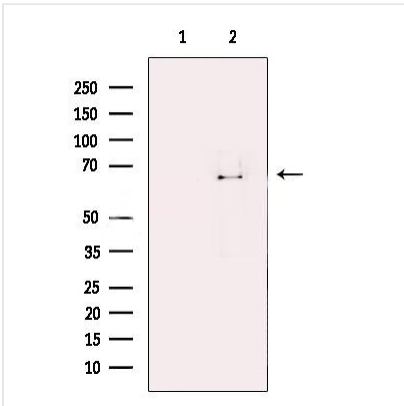
IHC (Immunohistochemistry-Paraffin)

AAA31265 at 1/100 staining Human pancreatic cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31265 at 1/100 staining Human kidney cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from HepG2 cells, using PPP2R5C Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PPP2R5C antibody	Function: The B regulatory subunit might modulate substrate selectivity and catalytic activity, and also might direct the localization of the catalytic enzyme to a particular subcellular compartment. The PP2A-PPP2R5C holoenzyme may specifically dephosphorylate and activate TP53 and play a role in DNA damage-induced inhibition of cell proliferation. PP2A-PPP2R5C may also regulate the ERK signaling pathway through ERK dephosphorylation.
	Post Translational Modifications: Isoform Gamma-3 is phosphorylated on serine residues. Isoform Gamma-1 phosphorylation by ERK2 is IER3-dependent and inhibits ERK dephosphorylation by PP2A-PPP2R5C.
	Subcellular Location: Nucleus. Chromosome>Centromere.
	Tissue Specificity: Highest levels in heart, skeletal muscle and brain. Lower levels in pancreas, kidney, lung and placenta. Very low levels in liver.
	Subunit Structure: PP2A consists of a common heterodimeric core enzyme, composed of PPP2CA a 36 kDa catalytic subunit (subunit C) and PPP2R1A a 65 kDa constant regulatory subunit (PR65 or subunit A), that associates with a variety of regulatory subunits. Proteins that associate with the core dimer include three families of regulatory subunits B (the R2/B/PR55/B55, R3/B"/PR72/PR130/PR59 and R5/B'/B56 families), the 48 kDa variable regulatory subunit, viral proteins, and cell signaling molecules. Interacts with PPP2CA AND PPP2R1A; the interaction is direct. Interacts with SGO1; the interaction is direct. Isoform 1 and isoform 2 interact with TP53 (phosphorylated at Ser-15 by ATM); increased upon DNA damage it drives PP2A-mediated dephosphorylation of TP53 at Thr-55. Interacts with IER3 and/or ERK kinases; regulates ERK dephosphorylation. Interacts with CIP2A; this interaction stabilizes CIP2A (PubMed:28174209).
	Similarity: Belongs to the phosphatase 2A regulatory subunit B56 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31083259
NCBI GeneID	5527
NCBI Accession #	NP_002710.2
NCBI GenBank Nucleotide #	NP_002710.2
UniProt Accession #	Q13362
Molecular Weight	Observed Molecular Weight: (Observed)61kD. Predicted Molecular Weight: (Calculated)61kDa.
NCBI Official Full Name	serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit gamma isoform isoform a
NCBI Official Synonym Full Names	protein phosphatase 2 regulatory subunit B'gamma
NCBI Official Symbol	PPP2R5C
NCBI Official Synonym Symbols	B56G; PR61G; B56gamma
NCBI Protein Information	serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit gamma isoform
UniProt Protein Name	Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit gamma isoform
UniProt Gene Name	PPP2R5C
UniProt Synonym Gene Names	KIAA0044
UniProt Entry Name	2A5G_HUMAN

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