

Rabbit CENPB Polyclonal Antibody | anti-CENPB antibody

CENPB Antibody

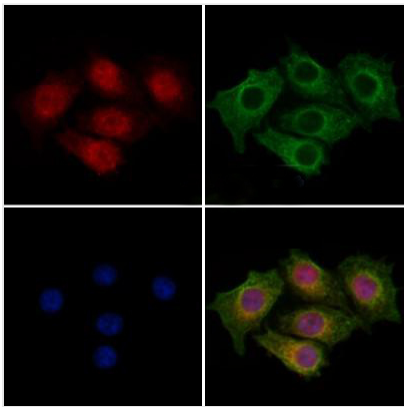
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31178	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%)	ELISA

PRODUCT SYNONYMS

CENPB; Polyclonal Antibody; CENPB Antibody; CENP B; CENP-B; CENPB_HUMAN; centromere autoantigen B; Centromere protein B; 80kDa; Major centromere autoantigen B; anti-CENPB antibody

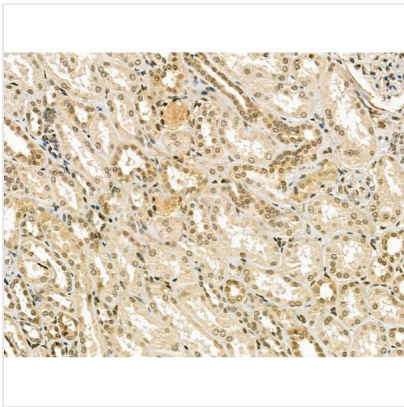
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	CENPB Antibody detects endogenous levels of total CENPB.
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	599
Applicable Applications for anti-CENPB antibody	ELISA
Application Notes	WB: 1:500-1:2000 IF: 1:100-1:500 ICC: 1:100-1:500 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human CENPB, corresponding to a region within N-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



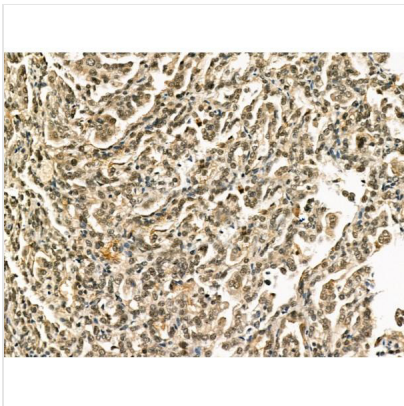
IF (Immunofluorescence)

AAA31178 staining HepG2 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(AAA31178) 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).



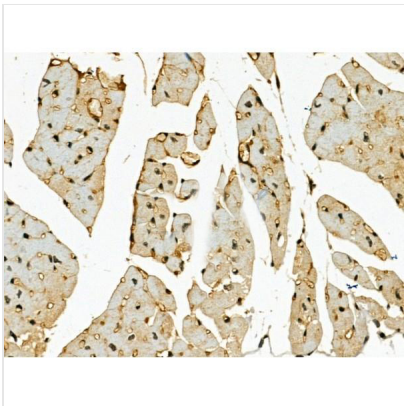
IHC (Immunohistochemistry-Paraffin)

AAA31178 at 1/100 staining Human kidney cancer and adjacent normal tissues 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.



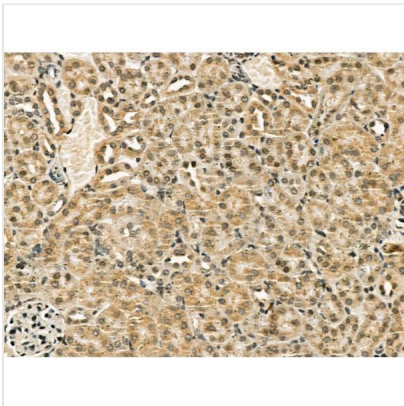
IHC (Immunohistochemistry-Paraffin)

AAA31178 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.



IHC (Immunohistochemistry-Paraffin)

AAA31178 at 1/100 staining Mouse heart tissue 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)

AAA31178 at 1/100 staining Mouse kidney tissue 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)

AAA31178 at 1/100 staining Mouse brain tissue 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.

ADDITIONAL INFORMATION

Related Product Information for anti-CENPB antibody	Function: Interacts with centromeric heterochromatin in chromosomes and binds to a specific 17 bp subset of alphoid satellite DNA, called the CENP-B box (PubMed:11726497). May organize arrays of centromere satellite DNA into a higher-order structure which then directs centromere formation and kinetochore assembly in mammalian chromosomes (Probable). Post Translational Modifications: Poly-ADP-ribosylated by PARP1.N-terminally methylated by METTL11A/NTM1. Alpha-N-methylation is stimulated in response to extracellular stimuli, including increased cell density and heat shock, and seems to facilitate binding to CENP-B boxes. Chromatin-bound CENP-B is primarily trimethylated. Subcellular Location: Nucleus. Chromosome>Centromere. Subunit Structure: Antiparallel homodimer (PubMed:1469042, PubMed:14522975). Interacts with CENPT (PubMed:19412974). Identified in a centromere complex containing histones H2A, H2B and H4, and at least CENPA, CENPB, CENPC, CENPT, CENPN, HJURP, SUPT16H, SSRP1 and RSF1 (PubMed:27499292).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21735415
NCBI GeneID	1059
NCBI Accession #	NP_001801.1
NCBI GenBank Nucleotide #	NP_001801.1
UniProt Accession #	P07199
Molecular Weight	Observed Molecular Weight: (Observed)65kD. Predicted Molecular Weight: (Calculated)65kDa.
NCBI Official Full Name	major centromere autoantigen B
NCBI Official Synonym Full Names	centromere protein B
NCBI Official Symbol	CENPB
NCBI Protein Information	major centromere autoantigen B
UniProt Protein Name	Major centromere autoantigen B
UniProt Gene Name	CENPB
UniProt Synonym Gene Names	CENP-B
UniProt Entry Name	CENPB_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.