

Rabbit INCENP Polyclonal Antibody | anti-INCENP antibody

Phospho-INCENP (Thr59) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31457	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Horse (100%), Sheep (89%), Rabbit (100%), Dog (100%), Chicken (100%)	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

INCENP; Polyclonal Antibody; Phospho-INCENP (Thr59) Antibody; binds and activates aurora B and C in vivo and in vitro; Chromosomal passenger protein; INCE_HUMAN; Inner centromere protein; Inner centromere protein antigens 135/155kDa; Inner centromere protein antigens 135kD 155kD; Inner centromere protein INCENP; anti-INCENP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Horse (100%), Sheep (89%), Rabbit (100%), Dog (100%), Chicken (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-INCENP (Thr59) Antibody detects endogenous levels of INCENP only when phosphorylated at Thr59.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
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)
Applicable Applications for anti-INCENP antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA (Peptide ELISA)
Application Notes	WB: 1:1000-3000 IF/ICC: 1:100-1:500 IHC: 1:50-1:200 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human INCENP around the phosphorylation site of Thr59.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylation by AURKB or AURKC at its C-terminal part is important for AURKB or AURKC activation by INCENP.
Subunit Structure	Component of the chromosomal passenger complex (CPC) composed of at least BIRC5/survivin, CDCA8/borealin, INCENP, AURKB or AURKC; in the complex binds directly to AURKB or AURKC via the IN box, and forms a triple-helix bundle-based subcomplex with BIRC5 and CDCA8 via its N-terminus. The reported homodimerization is questioned as the SAH domain is shown to be monomeric (By similarity). Interacts with H2AZ1 (By similarity). Interacts with CBX1 and CBX3. Interacts with tubulin beta chain. Interacts with EVI5. Interacts with CBX5; POGZ and INCENP compete for interaction with CBX5; regulates INCENP (and probably CPC) localization to centromeres in interphase and not required for proper mitotic progression or sister chromatid cohesion. Interacts with POGZ. Interacts with JTB.

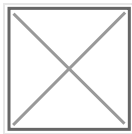
Similarity	The IN box mediates interaction with AURKB and AURKC. The SAH (single alpha-helix) region is characterized by a high content of charged residues which are predicted to stabilize the alpha-helical structure by ionic bonds. It can refold after extension suggesting an in vivo force-dependent function. The isolated SAH domain is monomeric. Belongs to the INCENP family.
Subcellular Location	Nucleus. Chromosome>Centromere. Cytoplasm>Cytoskeleton>Spindle. Midbody. Chromosome>Centromere>Kinetochore. Note: Colocalized at synaptonemal complex central element from zygotene up to late pachytene when it begins to relocalize to heterochromatic chromocenters. Colocalizes with AURKB at a connecting strand traversing the centromere region and joining sister kinetochores, in metaphase II centromeres. This strand disappears at the metaphase II/anaphase II transition and relocalizes to the spindle midzone (By similarity). Colocalizes with AURKB at mitotic chromosomes (PubMed:11453556). Localizes to inner kinetochore (PubMed:16760428). Localizes on chromosome arms and inner centromeres from prophase through metaphase and then transferring to the spindle midzone and midbody from anaphase through cytokinesis (PubMed:15316025). Colocalizes to the equatorial cell cortex at anaphase (PubMed:11453556).
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



Application Data

At 25 degree C. Samples were then incubated with primary Ab(At 37 degree 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)

At 1/100 staining Human gastric 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 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

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 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Human ovarian 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 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Human ovarian 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 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Human ovarian 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 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-INCENP antibody

Component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. Acts as a scaffold regulating CPC localization and activity. The C-terminus associates with AURKB or AURKC, the N-terminus associated with BIRC5/survivin and CDCA8/borealin tethers the CPC to the inner centromere, and the microtubule binding activity within the central SAH domain directs AURKB/C toward substrates near microtubules. The flexibility of the SAH domain is proposed to allow AURKB/C to follow substrates on dynamic microtubules while ensuring CPC docking to static chromatin (By similarity). Activates AURKB and AURKC. Required for localization of CBX5 to mitotic centromeres. Controls the kinetochore localization of BUB1.

NCBI AND UNIPROT INFORMATION

NCBI GI #	102467235
NCBI GeneID	3619
NCBI Accession #	NP_001035784.1
NCBI GenBank Nucleotide #	NM_001040694.1
UniProt Accession #	Q9NQS7; Q5Y192; A8MQD2
Molecular Weight	918
NCBI Official Full Name	inner centromere protein isoform 1
NCBI Official Synonym Full Names	inner centromere protein antigens 135/155kDa
NCBI Official Symbol	INCENP
NCBI Protein Information	inner centromere protein; chromosomal passenger protein; inner centromere protein INCENP; binds and activates aurora-B and -C in vivo and in vitro
UniProt Protein Name	Inner centromere protein
UniProt Gene Name	INCENP
UniProt Entry Name	INCE_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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/incenp-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-peptide-elisa-elisa/31457>