

Rabbit CASC5 Polyclonal Antibody | anti-KNL1 antibody

CASC5 Antibody

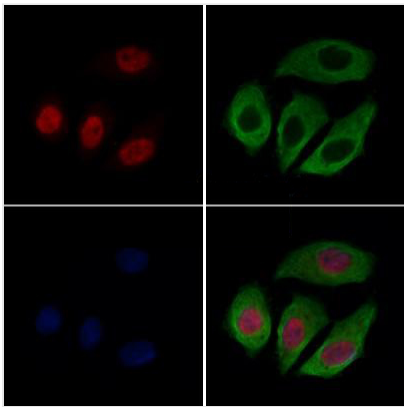
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31224	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(88%), Horse(88%), Rabbit(86%)	ELISA

PRODUCT SYNONYMS

CASC5; Polyclonal Antibody; CASC5 Antibody; Protein D40/AF15q14; AF15Q14; ALL1 fused gene from chromosome 15q14; Blinkin bub linking kinetochore protein; Cancer susceptibility candidate 5; Cancer susceptibility candidate gene 5 protein; Cancer/testis antigen 29; CT29; D40; hKNL 1; hSpc105; KIAA1570; Kinetochore null 1 homolog; Kinetochore null protein 1; Kinetochore scaffold 1; KNL1; anti-KNL1 antibody

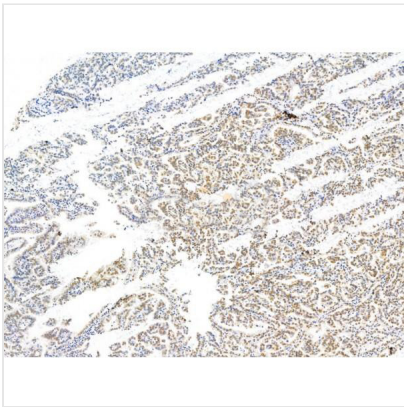
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(88%), Horse(88%), Rabbit(86%)
Clonality	Polyclonal
Isotype	IgG
Specificity	CASC5 Antibody detects endogenous levels of total CASC5.
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	2316
Applicable Applications for anti-KNL1 antibody	ELISA
Application Notes	IF: 1:100-1:500 ICC: 1:100-1:500 WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human CASC5, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



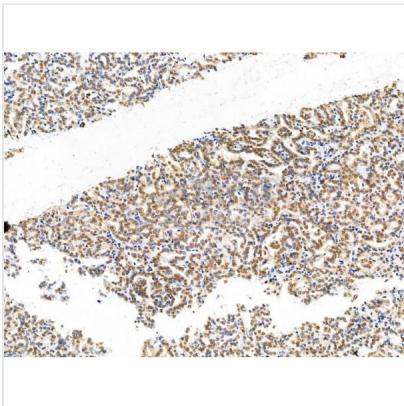
IF (Immunofluorescence)

AAA31224 staining HeLa 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(AAA31224 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor488 conjugated goat anti-mouse 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).



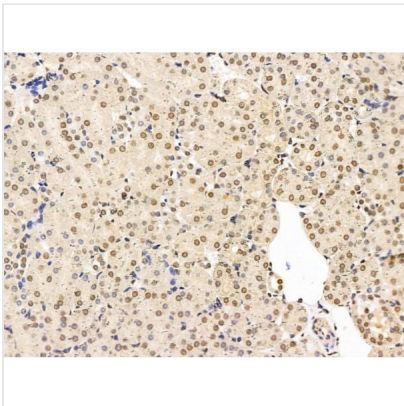
IHC (Immunohistochemistry-Paraffin)

AAA31224 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.



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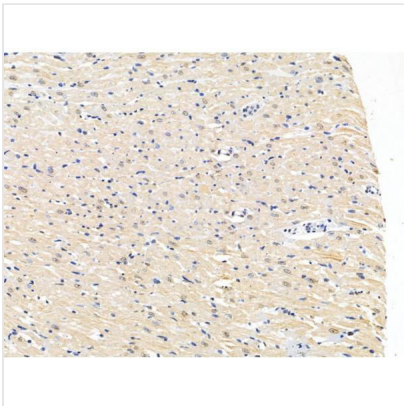
IHC (Immunohistochemistry-Paraffin)

AAA31224 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)

AAA31224 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.



IHC (Immunohistochemistry-Paraffin)

AAA31224 at 1/100 staining Rat 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.

ADDITIONAL INFORMATION

Related Product Information for anti-KNL1 antibody	Function: Performs two crucial functions during mitosis: it is essential for spindle-assembly checkpoint signaling and for correct chromosome alignment. Required for attachment of the kinetochores to the spindle microtubules. Directly links BUB1 and BUB1B to kinetochores. Part of the MIS12 complex, which may be fundamental for kinetochore formation and proper chromosome segregation during mitosis. Acts in coordination with CENPK to recruit the NDC80 complex to the outer kinetochore. Subcellular Location: Nucleus. Chromosome>Centromere>Kinetochore. Note: Weakly expressed in interphase nuclei. Expression increases from prophase to late anaphase, but greatly diminishes from the telophase and cytokinesis to early G1 phase of cell cycle. Tissue Specificity: Highly expressed in testis, where it is localized in germ cells, in particular in spermatocytes and in the pre-acrosome of round spermatids. Detected in the acrosome of ejaculated spermatozoa. Detected in adult thymus, bone marrow, colon, small intestine, appendix and placenta, and in fetal liver and thymus. Subunit Structure: Interacts with DSN1, MIS12, BUB1, BUB1B, NSL1 and ZWINT.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	444299651
NCBI GeneID	57082
NCBI Accession #	NP_653091.3
NCBI GenBank Nucleotide #	NP_653091.3
UniProt Accession #	Q8NG31
Molecular Weight	Observed Molecular Weight: (Observed)265kD. Predicted Molecular Weight: (Calculated)265kDa.
NCBI Official Full Name	kinetochore scaffold 1 isoform 2
NCBI Official Synonym Full Names	kinetochore scaffold 1
NCBI Official Symbol	KNL1
NCBI Official Synonym Symbols	D40; CT29; Spc7; CASC5; MCPH4; hKNL-1; AF15Q14; PPP1R55; hSpc105
NCBI Protein Information	kinetochore scaffold 1
UniProt Protein Name	Protein CASC5
UniProt Gene Name	CASC5
UniProt Synonym Gene Names	KIAA1570; KNL1; AF15q14; Blinkin; CT29
UniProt Entry Name	CASC5_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.