

ARG40018 anti-CASC5 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CASC5
Tested Reactivity	Hu, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CASC5
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-300 of Human CASC5 (NP_733468.3).
Conjugation	Un-conjugated
Alternate Names	PPP1R55; D40; Cancer/testis antigen 29; AF15q14; hSp105; Blinkin; Protein CASC5; Bub-linking kinetochore protein; CT29; hKNL-1; KNL1; Kinetochore-null protein 1; Protein D40/AF15q14; Spc7; AF15Q14; ALL1-fused gene from chromosome 15q14 protein; Cancer susceptibility candidate gene 5 protein

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:100
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Jurkat	
Observed Size	300 kDa	

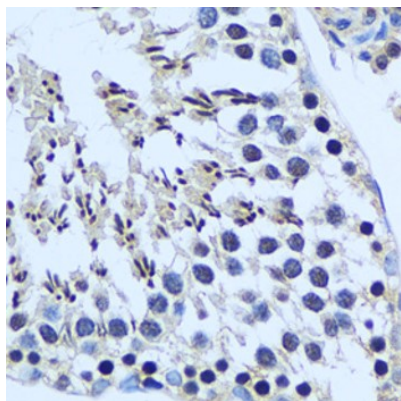
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

Gene Symbol	CASC5
Gene Full Name	cancer susceptibility candidate 5
Background	<p>The protein encoded by this gene is a component of the multiprotein assembly that is required for creation of kinetochore-microtubule attachments and chromosome segregation. The encoded protein functions as a scaffold for proteins that influence the spindle assembly checkpoint during the eukaryotic cell cycle and it interacts with at least five different kinetochore proteins and two checkpoint kinases. In adults, this gene is predominantly expressed in normal testes, various cancer cell lines and primary tumors from other tissues and is ubiquitously expressed in fetal tissues. This gene was originally identified as a fusion partner with the mixed-lineage leukemia (MLL) gene in t(11;15)(q23;q14). Mutations in this gene cause autosomal recessive primary microcephaly-4 (MCPH4). Alternative splicing results in multiple transcript variants encoding different isoforms. Additional splice variants have been described but their biological validity has not been confirmed. [provided by RefSeq, Jan 2013]</p>
Function	<p>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. [UniProt]</p>
Calculated Mw	265 kDa
Cellular Localization	<p>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. [UniProt]</p>

Images



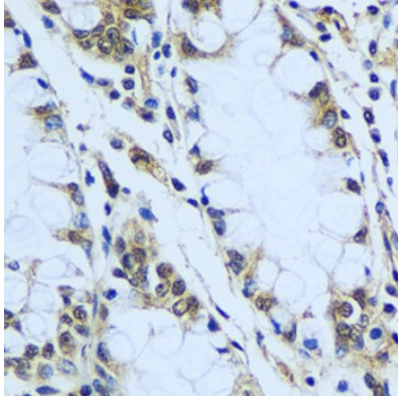
ARG40018 anti-CASC5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat testis stained with ARG40018 anti-CASC5 antibody at 1:100 dilution.



ARG40018 anti-CASC5 antibody WB image

Western blot: 25 µg of Jurkat cell lysate stained with ARG40018 anti-CASC5 antibody at 1:1000 dilution.



ARG40018 anti-CASC5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human colon stained with ARG40018 anti-CASC5 antibody at 1:100 dilution.