

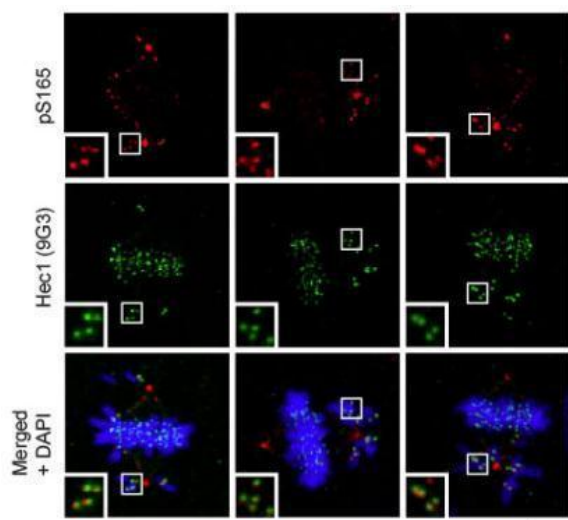


<b>Catalog Number</b>	GTX70268	Package: 100 µl	★★★★★ (2)	<a href="#">Reference</a> (39)
<b>Product Name</b>	HEC1 antibody [9G3.23]			
<b>Full Name</b>	NDC80 homolog, kinetochore complex component (S. cerevisiae)			
<b>Synonyms</b>	HEC, 10403, 607272, O14777, KNTC2, HEC1			
<b>Product Description</b>	Mouse monoclonal antibody to human HEC1			
<b>Background</b>	Human HEC 1 is a coiled-coil protein that has been demonstrated to have a role in M-phase progression. It is essential for proper chromosome segregation. Its depletion results in the impairment of chromosome congression and results in spindle checkpoint activation.			
<b>Host</b>	Mouse			
<b>Clonality</b>	Monoclonal			
<b>Clone Name</b>	9G3.23			
<b>Isotype</b>	IgG2a			
<b>Target</b>	HEC1			
<b>Immunogen</b>	Human HEC1 protein consisting of amino acids 56-642.			
<b>Antigen Species</b>	Human			
<b>Species Reactivity</b>	Human, Mouse, Pig, Rat, Hamster, Kangaroo rat, African green monkey			
<b>Applications</b>	FACS, ICC/IF, IHC, IP, WB			
<b>Application Note</b>	For ICC/IF: Use at a concentration of 4-10 µg/ml. For IP: Use at a concentration of 1-5 µg/ml. For WB: Use at a dilution of 1:500-1:3000. For FACS: Assay dependent Not tested in other applications. Optimal dilutions/concentrations should be determined by the researcher.			
<b>Positive Controls</b>	HeLa , MEF , PtK2 , 293T , A431 , HepG2 , U87-MG NE nuclear extract			
<b>Predicted Target Size</b>	80 kDa			
<b>Cellular Localization</b>	Nuclear			
<b>Form Supplied</b>	Liquid			
<b>Purification</b>	Protein G Affinity Purified			
<b>Purification Note</b>	From ascitic fluid			
<b>Concentration</b>	0.27 mg/ml (Please refer to the vial label for the specific concentration)			
<b>Storage Buffer</b>	Phosphate-buffered saline, pH 7.4, containing no preservatives			
<b>Storage Instruction</b>	Keep as concentrated solution. Store at 4°C short term. For extended storage aliquot and store at -20°C or below. Avoid freeze-thaw cycles.			
<b>Notes</b>	For <i>In vitro</i> laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.			
<b>ResearchArea</b>	<a href="#">Cancer</a> > <a href="#">Cell cycle</a> > <a href="#">Cell division</a> <a href="#">Cell Biology</a> > <a href="#">Cell cycle</a>			

### Application Reference

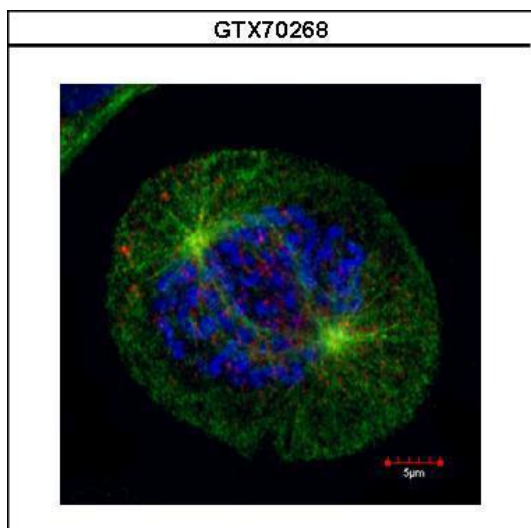
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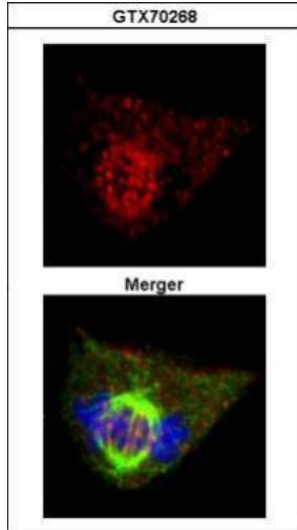
#### GTX70268 ICC/IF Image

Mouse anti-Hec1 (9G3, cat# GTX70268) and rabbit anti-Hec1 (phospho Ser165) antibodies were used to co-stain MCF10A cells. Insets show kinetochores of misaligned chromosomes. DAPI staining shows chromatin.



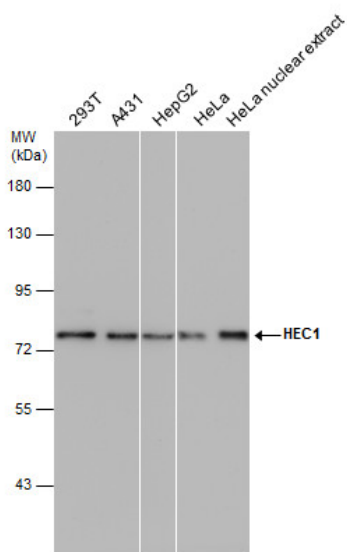
### GTX70268 ICC/IF Image

Confocal immunofluorescence staining (Olympus FV10i) of HEC1, a kinetochore outer layer marker. U2OS cells were fixed by 4% PFA and costained with Hec1 9G3.23 AB (Red; cat# GTX70268; 1:500 Ab dilution) and alpha-tubulin rabbit polyclonal AB (Green; cat# GTX112141; 1:500 Ab dilution), a spindle marker. DAPI (blue), chromosomes. Scale bar, 5  $\mu$ m



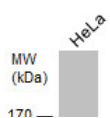
### GTX70268 ICC/IF Image

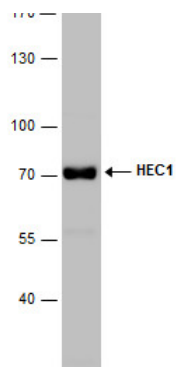
Confocal immunofluorescence analysis (Olympus FV10i) of paraformaldehyde-fixed 293T, using HEC1(GTX70268) antibody (Green) at 1:500 dilution. Alpha-tubulin filaments were labeled with GTX11304 (Red) at 1:500.



### GTX70268 WB Image

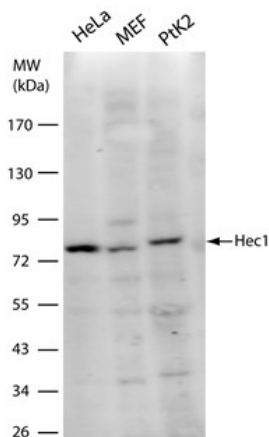
HEC1 antibody [9G3.23] detects HEC1 protein by western blot analysis. Various whole cell extracts and HeLa nuclear extracts (30  $\mu$ g) were separated by 7.5% SDS-PAGE, and the membrane was blotted with HEC1 antibody [9G3.23] (GTX70268) diluted at 1:1000. The signal was developed with Trident Sharp-ECL (GTX14698).





**GTX70268 WB Image**

Whole cell extract (30 µg) was separated by 7.5% SDS-PAGE, and the membrane was blotted with HEC1 antibody [9G3.23] (GTX70268) diluted at 1:1000. The signal was developed with Trident ECL plus-Enhanced (GTX400007).



**GTX70268 WB Image**

Hec1 [9G3] antibody detects Hec1 [9G3] protein by western blot analysis. Various whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with Hec1 [9G3] antibody (GTX70268) diluted at a dilution of 1:1000.