

# HIRA Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6277c

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P54198</a>
<b>Other Accession</b>	<a href="#">Q8QFR2</a> , <a href="#">Q61666</a> , <a href="#">P79987</a>
<b>Reactivity</b>	Human, Mouse
<b>Predicted</b>	Chicken, Mouse, Xenopus
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Calculated MW</b>	111835
<b>Antigen Region</b>	431-461

## Additional Information

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<b>Gene ID</b>	7290
<b>Other Names</b>	Protein HIRA, TUP1-like enhancer of split protein 1, HIRA, DGCR1, HIR, TUPLE1
<b>Target/Specificity</b>	This HIRA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 431-461 amino acids from the Central region of human HIRA.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	HIRA Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	HIRA
<b>Synonyms</b>	DGCR1, HIR, TUPLE1
<b>Function</b>	Cooperates with ASF1A to promote replication-independent chromatin assembly. Required for the periodic repression of histone gene transcription

during the cell cycle. Required for the formation of senescence-associated heterochromatin foci (SAHF) and efficient senescence-associated cell cycle exit.

**Cellular Location**

Nucleus. Nucleus, PML body. Note=Primarily, though not exclusively, localized to the nucleus. Localizes to PML bodies immediately prior to onset of senescence

**Tissue Location**

Expressed at high levels in kidney, pancreas and skeletal muscle and at lower levels in brain, heart, liver, lung, and placenta.

## Background

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HIRA is a histone chaperone that preferentially places the variant histone H3.3 in nucleosomes. Orthologs of this protein in yeast, flies, and plants are necessary for the formation of transcriptionally silent heterochromatin. It plays an important role in the formation of the senescence-associated heterochromatin foci. These foci likely mediate the irreversible cell cycle changes that occur in senescent cells. It is considered the primary candidate protein in some haploinsufficiency syndromes such as DiGeorge syndrome, and insufficient production of the gene may disrupt normal embryonic development.

## References

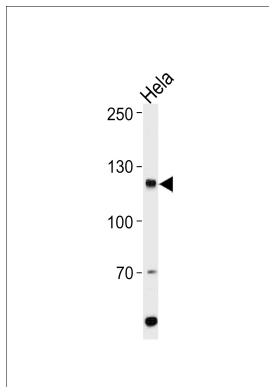
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Zhang,R., Mol. Cell. Biol. 27 (6), 2343-2358 (2007)

Tang,Y., Nat. Struct. Mol. Biol. 13 (10), 921-929 (2006)

## Images

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HIRA Antibody (Center) (Cat. #AP6277c) western blot analysis in HeLa cell line lysates (35ug/lane). This demonstrates the HIRA antibody detected the HIRA protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.