

**HIRA Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6277c****Specification**

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**HIRA Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P54198](#)**HIRA Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 7290**Other Names**

Protein HIRA, TUP1-like enhancer of split protein 1, HIRA, DGCR1, HIR, TUPLE1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6277c](/product/products/AP6277c) was selected from the Center region of human HIRA. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**HIRA Antibody (Center) Blocking Peptide - Protein Information****Name** HIRA**Synonyms** DGCR1, HIR, TUPLE1**Function**

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.

### **HIRA Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **HIRA Antibody (Center) Blocking Peptide - Images**

### **HIRA Antibody (Center) Blocking Peptide - Background**

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.

### **HIRA Antibody (Center) Blocking Peptide - References**

Zhang,R., Mol. Cell. Biol. 27 (6), 2343-2358 (2007)Tang,Y., Nat. Struct. Mol. Biol. 13 (10), 921-929 (2006)