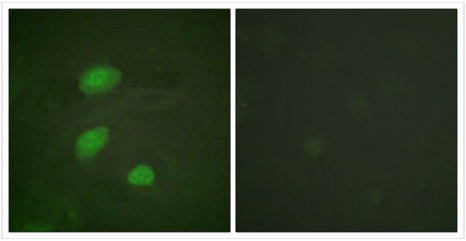
HIRA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HIRA, Polyclonal Antibody
Full Product Name	HIRA (Phospho-Thr555) Antibody
Product Gene Name	anti-HIRA antibody
Product Synonym Names	DGCR1; TUP1 like enhancer of split protein 1; TUPLE1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using phospho peptide. The antibody against non-phospho peptide was removed by chromatography using corresponding non-phospho peptide.
Concentration	1 mg/ml (lot specific)
Specificity	HIRA (Phospho-Thr555) Antibody detects endogenous levels of HIRA only when phosphorylated at Thr555.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	111 kDa
OMIM	X81844 mRNA
3D Structure	ModBase 3D Structure for P54198
Target Modification	Phospho
Modification Sites	H:T555; M:T554
Immunogen	The antiserum was produced against synthesized peptide derived from human HIRA around the phosphorylation site of Thr555.
Immunogen Range	521-570
Applications Tested/Suitable for anti-HIRA antibody	Immunofluorescence (IF), ELISA (EIA)
Application Notes for anti-HIRA antibody	IF: 1:100~1:500 ELISA: 1:1000
Related Product Information for anti-HIRA antibody	MBS9502820 is an antibody targeting HIRA. Also known as HIRA (Phospho-Thr555) Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-HIRA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunofluorescence (IF) of anti-HIRA antibody
Immunofluorescence analysis of HeLa cells, using HIRA (Phospho-Thr555) Antibody. The picture on the right is blocked with the phospho peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIRA. It may not necessarily be applicable to this product.

NCBI GI #	21536485
NCBI GeneID	7290
NCBI Accession #	NP_003316.3
UniProt Primary Accession #	P54198
UniProt Secondary Accession #	Q05BU9; Q8IXN2
UniProt Related Accession #	P54198
GenBank Nucleotide #	NM_003325.3
NCBI Official Full Name	protein HIRA
NCBI Official Synonym Full Names	histone cell cycle regulator
NCBI Official Symbol	HIRA
NCBI Official Synonym Symbols	TUP1; DGCR1; TUPLE1
UniProt Protein Name	Protein HIRA
UniProt Synonym Protein Names	TUP1-like enhancer of split protein 1
Protein Family	Protein
UniProt Gene Name	HIRA
UniProt Synonym Gene Names	DGCR1; HIR; TUPLE1
NCBI Protein Information	protein HIRA
NCBI Summary for HIRA	This gene encodes a histone chaperone that preferentially places the variant histone H3.3 in nucleosomes. Orthologs of this gene in yeast, flies, and plants are necessary for the formation of transcriptionally silent heterochomatin. This gene 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 gene in some haploinsufficiency syndromes such as DiGeorge syndrome, and insufficient production of the gene may disrupt normal embryonic development. [provided by RefSeq, Jul 2008]
UniProt Comments for HIRA	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.
Research Articles on HIRA	**1.** These data show that HIRA phosphorylation limits the expression of myogenic genes, while the dephosphorylation of HIRA is required for proficient H3.3 deposition and gene activation, demonstrating that the phosphorylation switch is exploited to modulate HIRA/H3.3-mediated muscle gene regulation during myogenesis.

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