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Rabbit Anti-phospho-HIRA (Thr555)/AP Conjugated antibody

SL17406R-AP

Product Name	Anti-phospho-HIRA (Thr555)/AP
Chinese Name	碱性磷酸酶（AP）标记的磷酸化 HIRA 蛋白抗体
Alias	HIRA (phospho T555); p-HIRA (phospho T555); DGCR1; DGGR 1; DGGR1; DiGeorge critical region gene 1; HIR; HIR histone cell cycle regulation defective homolog A; HIRA; HIRA protein; HIRA_HUMAN; Protein HIRA; TUP 1; TUP1; TUP1 like enhancer of split protein 1; TUP1-like enhancer of split protein 1; TUPLE 1; TUPLE1.
Product Type	Phosphorylated anti
Research Area	Cell biology Signal transduction Stem cells Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse(predicted:Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Applications	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	112kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthesised phosphopeptide derived from human HIRA around the phosphorylation site of Thr555
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:**

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]

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.

Subcellular Location:
Nucleus. Nucleus > PML body. Primarily, though not exclusively, localized to the nucleus. Localizes to PML bodies immediately prior to onset of senescence.

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

Post-translational modifications:
Sumoylated. Phosphorylated by CDK2/CCNA1 and CDK2/CCNE1 on Thr-555 in vitro. Also phosphorylated on Thr-555 and Ser-687 in vivo.

Similarity:
Belongs to the WD repeat HIR1 family.
Contains 8 WD repeats.

Database links:

Entrez Gene: 7290 Human

Entrez Gene: 15260 Mouse

Omim: 600237 Human

SwissProt: P54198 Human

SwissProt: Q61666 Mouse

Unigene: 474206 Human

Unigene: 15694 Mouse

Unigene: 453041 Mouse

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.