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GLYR1 (3Y4) Rabbit Monoclonal Antibody

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Catalog # AP93743

Product Information

Application	WB, IHC-P, IF
Primary Accession	Q49A26, Q922P9, Q5RKH0
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Calculated MW	60547

Additional Information

Gene ID	84656
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200
Storage Conditions	-20℃

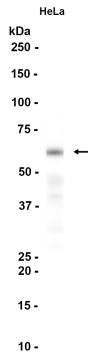
Protein Information

Name	GLYR1 (HGNC:24434)
Function	Cytokine-like nuclear factor with chromatin gene reader activity involved in chromatin modification and regulation of gene expression (PubMed:23260659, PubMed:30970244). Acts as a nucleosome- destabilizing factor that is recruited to genes during transcriptional activation (PubMed:29759984, PubMed:30970244). Recognizes and binds histone H3 without a preference for specific epigenetic markers and also binds DNA (PubMed:20850016, PubMed:30970244). Interacts with KDM1B and promotes its histone demethylase activity by facilitating the capture of H3 tails, they form a multifunctional enzyme complex that modifies transcribed chromatin and facilitates Pol II transcription through nucleosomes (PubMed:23260659, PubMed:29759984, PubMed:30970244). Stimulates the acetylation of 'Lys-56' of nucleosomal histone H3 (H3K56ac) by EP300 (PubMed:29759984). With GATA4, co-binds a defined set of heart development genes and coregulates their expression during cardiomyocyte differentiation (PubMed:35182466). Regulates p38 MAP kinase activity by mediating stress activation of MAPK14/p38alpha and specifically regulating MAPK14 signaling (PubMed:16352664). Indirectly promotes phosphorylation of MAPK14 and activation of ATF2 (PubMed:16352664). The phosphorylation of MAPK14 requires upstream activity of MAP2K4 and MAP2K6 (PubMed:16352664).
Cellular Location	Nucleus. Chromosome. Note=Found in actively RNAPolII-transcribed gene bodies

Background

Enables DNA binding activity; methylated histone binding activity; and nucleosome binding activity. Involved in positive regulation of histone acetylation and positive regulation of transcription by RNA polymerase II. Located in cytosol and nucleoplasm. Part of nucleosome. [provided by Alliance of Genome Resources, Apr 2022]

Images



Western blot analysis of extracts from HeLa cells using AP93743 at 1:1000.

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