

GLYR1 (3Y4) Rabbit Monoclonal Antibody

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Catalog # AP93743

Product Information

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

Additional Information

| | |
|--------------------|---------------------------|
| Gene ID | 84656 |
| Dilution | WB~~1:1000 IHC~~1:100~500 |
| Storage Conditions | -20°C |

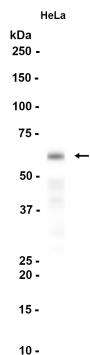
Protein Information

| | |
|-------------------|--|
| Name | GLYR1 (HGNC:24434) |
| Function | <p>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).</p> |
| Cellular Location | Nucleus. Chromosome. Note=Found in actively RNAPolIII-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'.