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GLYR1 Rabbit pAb

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Catalog # AP55161

Product Information

Application	WB
Primary Accession	Q49A26
Reactivity	Human, Mouse
Predicted	Rat, Pig, Dog, Monkey, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60547
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GLYR1/NP60
Epitope Specificity	21-120/553
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	NP60 is a 553 amino acid nuclear protein that regulates the phosphorylation and activation of p38 alpha in response to stress. There are five isoforms of NP60 that are produced as a result of alternative splicing events.

Additional Information

Gene ID	84656
Other Names	Cytokine-like nuclear factor N-PAC, NPAC, 3-hydroxyisobutyrate dehydrogenase-like protein, Glyoxylate reductase 1 homolog, Nuclear protein NP60, Nuclear protein of 60 kDa, Nucleosome-destabilizing factor, hNDF, Putative oxidoreductase GLYR1, GLYR1 (HGNC:24434)
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

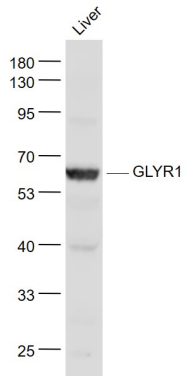
Name	GLYR1 (HGNC:24434)

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

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Images



Sample:
Liver (Mouse) Lysate at 40 ug
Primary: Anti- GLYR1 (AP55161) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 61 kD
Observed band size: 61 kD

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