10320 Camino Santa Fe, Suite G
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GLYR1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55161

Specification

GLYR1 Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q49A26
Reactivity	**Rat, Pig, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**61 KDa**
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.**
SIMILARITY	**Belongs to the 3-hydroxyisobutyrate dehydrogenase family. NP60 subfamily. Contains 1 A.T hook DNA-binding domain. Contains 1 PWWP domain.**
SUBUNIT	**Interacts with MAPK14.**
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.

GLYR1 Polyclonal Antibody - Additional Information

Gene ID 84656

Other Names
Putative oxidoreductase GLYR1, 1.-.-.-, 3-hydroxyisobutyrate dehydrogenase-like protein, Cytokine-like nuclear factor N-PAC, Glyoxylate reductase 1 homolog, Nuclear protein NP60, Nuclear protein of 60 kDa, Nucleosome-destabilizing factor, hNDF, GLYR1, HIBDL, NDF {ECO:0000303|PubMed:29759984}, NP60

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \><span class

="dilution_IHC-F">IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ 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 ℃.

GLYR1 Polyclonal Antibody - 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

GLYR1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

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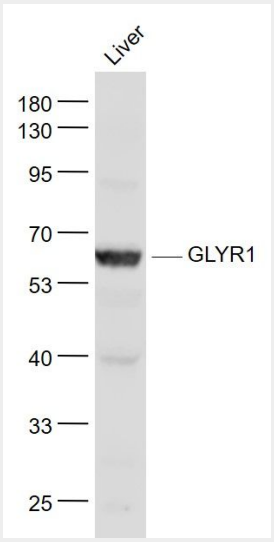
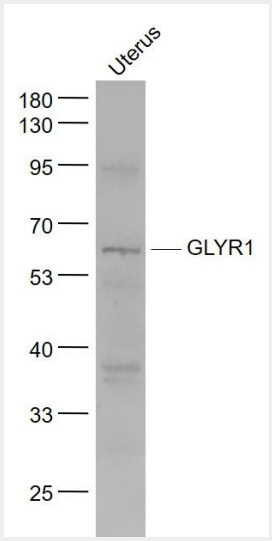
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GLYR1 Polyclonal Antibody - Images



Sample:
Liver (Mouse) Lysate at 40 ug
Primary: Anti- GLYR1 (bs-13451R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 61 kD
Observed band size: 61 kD



Sample:
Uterus (Mouse) Lysate at 40 ug
Primary: Anti- GLYR1 (bs-13451R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

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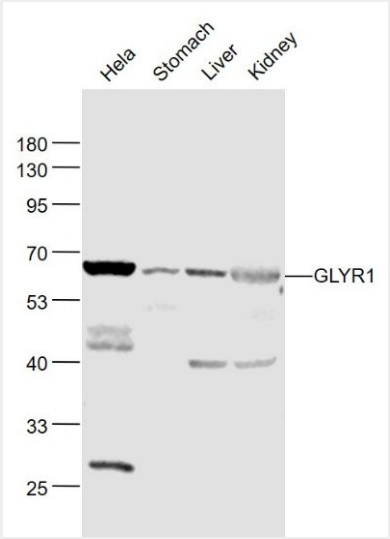
Predicted band size: 61 kD
Observed band size: 61 kD



Sample:
Hela(Human) Cell Lysate at 30 ug
Stomach (Mouse) Lysate at 40 ug
Liver (Mouse) Lysate at 40 ug
Kidney (Mouse) Lysate at 40 ug
Primary: Anti- GLYR1 (bs-13451R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 61 kD
Observed band size: 61 kD