For Research Use Only

GLYR1 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number:86877-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
86877-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6637

GenBank Accession Number:
BC064940

GeneID (NCBI):
84656

UNIPROT ID:
Q49A26

Full Name:
cytokine-like nuclear factor n-pac

Calculated MW:
61 kDa

Observed MW:
60 kDa

Purification Method:
Protein A purification

CloneNo.:
251890G7

Applications

Tested Applications:
WB, IF/ICC, Cytometric bead array, Indirect ELISA

Species Specificity:
human, rat

Product Information

86877-1-PBS targets GLYR1 as part of a matched antibody pair:

MP02739-1: 86877-2-PBS capture and 86877-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

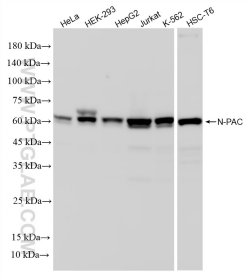
GlyR1 (glyoxylate/successful semi-Aldehyde Reductase 1) is a plant-specific NADPH- dependent reductase, which mainly locates in cytoplasm. It was originally regarded as "glyoxal/succinate semialdehyde reductase", which can reduce glyoxylate, an intermediate product of photorespiration, to glycolate, and also reduce succinate semialdehyde produced by GABA metabolism to γ -hydroxybutyric acid, thus eliminating active aldehydes and alleviating oxidative damage caused by abiotic stress. In invasive breast cancer cells, GLYR1 was detected to "flip" from the nucleus to the cell membrane (ecto-GLYR1) and became a new tumor-specific antigen. Humanized antibody and CAR-NK/CAR-T systems have been established for the membrane epitope, and will soon enter the clinical safety assessment. This means that GLYR1 itself can also be used as a "membrane target antigen" for precise tumor treatment.

Storage

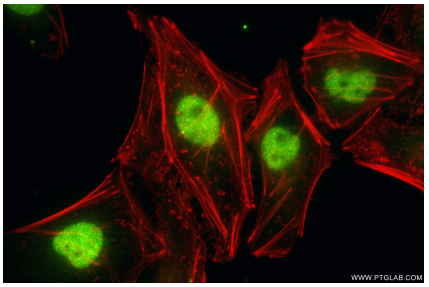
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

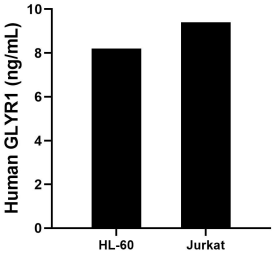
Selected Validation Data



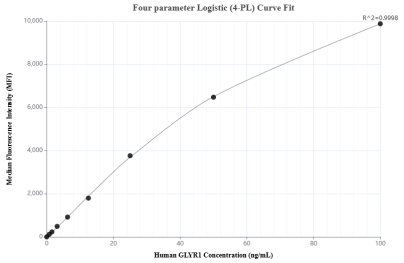
Various lysates were subjected to SDS PAGE followed by western blot with 86877-1-RR (N-PAC antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86877-1-PBS in a different storage buffer formulation.



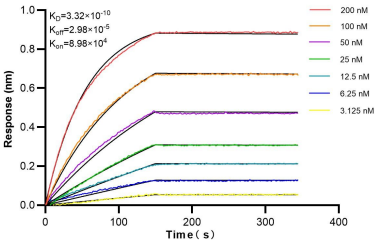
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using N-PAC antibody (86877-1-RR, Clone: 251890G7) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 86877-1-PBS in a different storage buffer formulation.



The mean GLYR1 concentration was determined to be 8.2 ng/mL in HL-60 cell extract based on a 1.2 mg/mL extract load, 9.4 ng/mL in Jurkat cell extract based on a 1.2 mg/mL extract load.



Cytometric bead array standard curve of MP02739-1, GLYR1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86877-2-PBS. Detection antibody: 86877-1-PBS. Standard: Ag6637. Range: 0.781-100 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 86877-1-RR against Human GLYR1 were performed. The affinity constant is 0.332 nM.