

For Research Use Only

GLYR1 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 86877-1-PBS



Basic Information

Catalog Number: 86877-1-PBS	GenBank Accession Number: BC064940	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 84656	CloneNo.: 251890G7
Isotype: IgG	UNIPROT ID: Q49A26	
Immunogen Catalog Number: AG6637	Full Name: cytokine-like nuclear factor n-pac	
	Calculated MW: 61 kDa	
	Observed MW: 60 kDa	

Applications

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

Species Specificity:
human, rat

Background Information

GlyR1 (glyoxylate/succinate 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 .
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

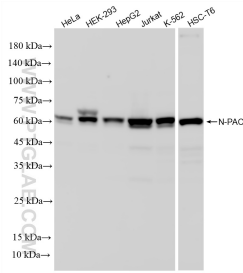
T: 4006900926

E: Proteintech-CN@ptglab.com

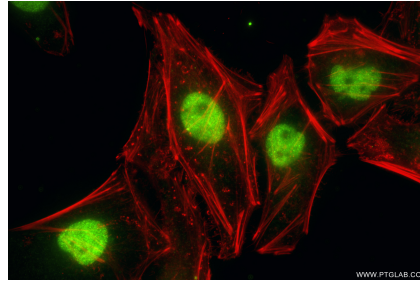
W: ptgcn.com

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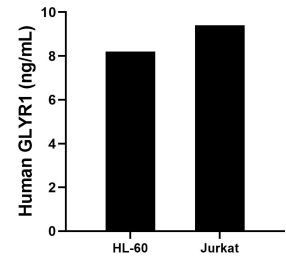
Selected Validation Data



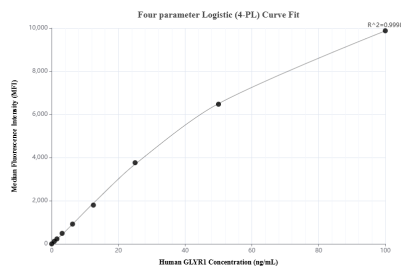
Various lysates were subjected to SDS PAGE followed by western blot with 86877-1-RR (N-PAC antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86877-1-PBS in a different storage buffer formulation.



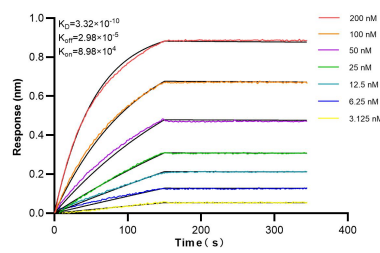
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using N-PAC antibody (86877-1-RR, Clone: 251890G7) at dilution of 1:1000 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 86877-1-PBS in a different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