For Research Use Only

Glypican 2 Recombinant antibody

Catalog Number:83241-1-RR

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Basic Information

Catalog Number:
83241-1-RR

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4041

GenBank Accession Number:
BC027972

GeneID (NCBI):
221914

UNIPROT ID:
Q8N158

Full Name:
glypican 2

Calculated MW:
579 aa, 63 kDa

Observed MW:
62 70-100 kDa

Purification Method:
Protein A purification

CloneNo.:
230518A4

Affinity:
K_D< 1.00 x 10^{-12}M

K_{Off}< 1.00 x 10^{-6}M

K_{On}= 1.07 x 10^{5}M

Applications

Tested Applications:
ELISA

Species Specificity:
human

Background Information

GPC2 (glypican 2), which is expected to be located in cell membrane and extracellular space. It is expressed in lymphoid tissue, skin and testis. The calculated molecular weight of the protein is 62 kDa. GPC2 is mainly active in growing nervous tissues and thyroid cancer tissues (PMID: 28616017). It participates in the growth and differentiation of neuronal axons. Increasing evidence has demonstrated the overexpression of GPC2 in neuroblastoma, a kind of childhood cancer. There is a discovery that GPC2 can be employed as a diagnostic, prognostic, and immunological predictor of generalized cancers. The study may broaden the train of thought toward application of GPC2 in immunotherapy (PMID: 35345673).

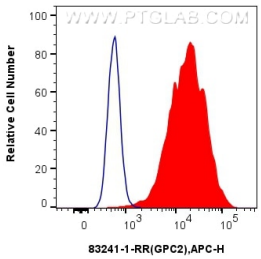
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

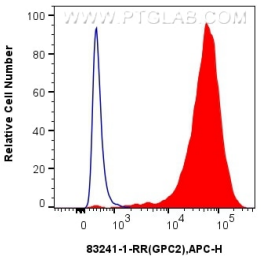
***** 20ul sizes contain 0.1% BSA**

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

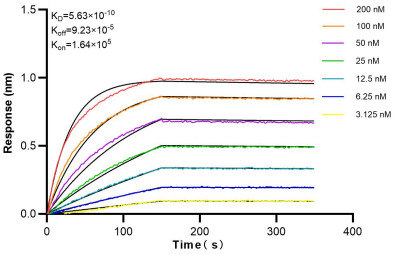
Selected Validation Data



1x10^6 HeLa cells were intracellularly stained with 0.25 ug Gpc2 Recombinant Antibody (83241-1-RR, Clone:230518A4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1x10^6 SH-SY5Y cells were intracellularly stained with 0.25 ug Gpc2 Recombinant Antibody (83241-1-RR, Clone:230518A4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83241-1-RR against Human Glypican 2 were performed. The affinity constant is below 1 pM.