

Human Glypican 4/GPC4 antibody

Catalog Number: ATGA0346

PRODUCT INFORMATION

Catalog number

ATGA0346

Clone No.

AT51E3

Product type

Monoclonal Antibody

UnitProt No.

O75487

NCBI Accession No.

NP_001439

Alternative Names

Glypican 4, Glypican 4, dj900E8.1, glypican proteoglycan 4

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human GPC4 (401-529aa) purified from E. coli

Isotype

IgG2a kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

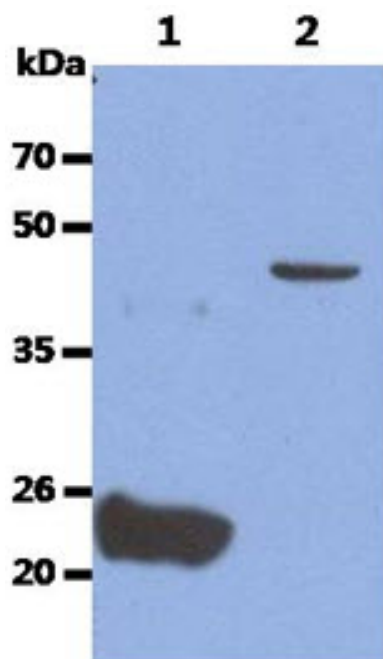
The Glypican (GPC) family of cell surface heparan sulfate proteoglycans is expressed in a tissue specific and developmentally regulated fashion. Expression of Glypican 4 has been reported in the mouse brain at embryonic day 10 and later stages and low during early tubule formation but is up-regulated in mature tubules. Accordingly it is not detected in the midline of the embryo at the initial stage of neural tube closure, suggesting that GPC4 is unlikely to play an essential role in convergent extension in the mouse.

General References

Ybot-Gonzalez P., et al. (2005) Dev Dyn. 233(3): 1013-1017.
Karihaloo A., et al. (2004) Mol Cell Biol. 24(19): 8745-8752.
Ohkawara B., et al. (2003) Development. 130(10): 2129-2138.

DATA

Western blot analysis (WB)



The Recombinant protein (50ng) and Cell lysate (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GPC4 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

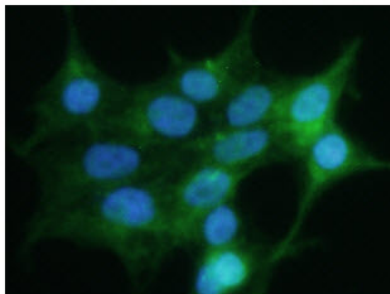
Lane 1. : Recombinant Human GPC4

Lane 2. : Ramos cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

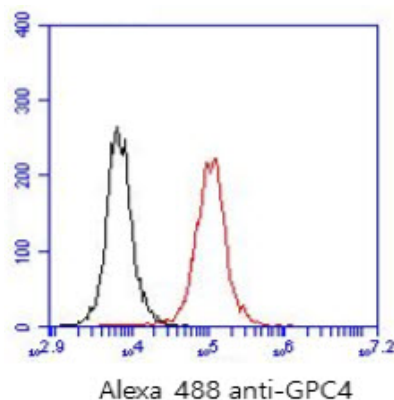
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ICC/IF analysis of GPC4 in 293T cells. The cell was stained with ATGA0346 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of GPC4 in 293T cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).