

Monoclonal anti-human GPC4 antibody (clone AT51E3)

Mouse IgG_{2a}, κ

Cat. No. IBATGA0346

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

NCBI Accession No.: NP_001439

Isotype: Mouse IgG_{2a} heavy chain and κ light chain

Clone: Anti-human GPC4 mAb, clone AT51E3, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human GPC4 protein.

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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis, ICC/IF and Flow cytometry to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:1000, ICC/IF and Flow cytometry is 1:200.

Application: ELISA, WB, ICC/IF, Flow cyt

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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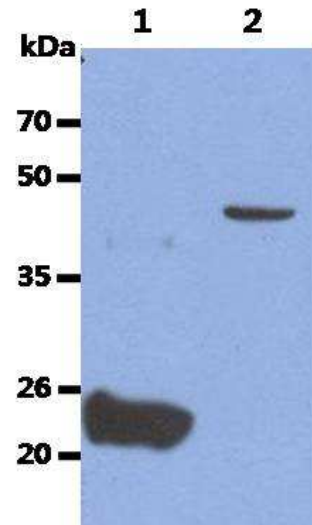
Product information

Western blot analysis

The Recombinant Human GPC4 (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.

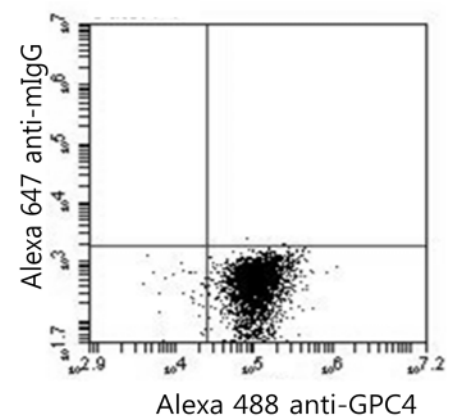
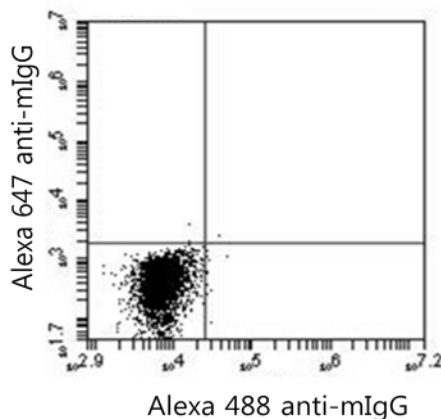
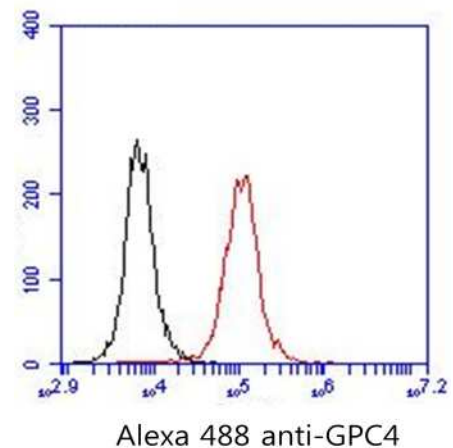
Lane 1. : Recombinant Human GPC4

Lane 2. : Ramos cell lysate



Flow cytometry

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).

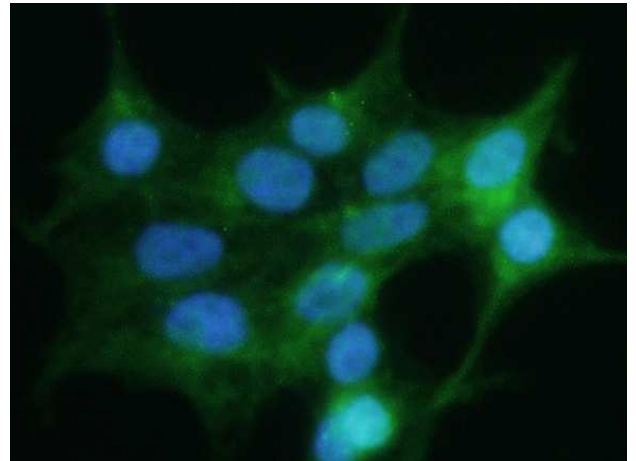


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ICC/IF analysis

ICC/IF analysis of GPC4 in 293T cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human GPC4 antibody (1:200) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



- 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

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