NKMAXBiO we support you, we believe in your research Human IMPA1/IMP1 antibody Catalog Number: ATGA0402

PRODUCT INFORMATION

Catalog number ATGA0402

Clone No. AT2G5

Product type Monoclonal Antibody

UnitProt No. P29218

NCBI Accession No. NP_005527

Alternative Names Inositol monophosphatase 1, IMPA, IMP, IMPase 1, Inositol monophosphatase 1

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 IMPA1 (1-277aa) purified from E. coli

lsotype

lgG1 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.



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

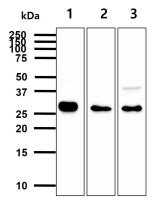
IMPA1 (inositol monophosphatase1) is responsible for the provision of inositol required for synthesis of phosphatidylinositol and polyphosphoinositides. It plays a key role in the phosphatidylinositol signaling pathway by catalyzing the hydrolysis of inositol monophosphates. This protein has been identified as the pharmacological target for lithium action in the brain.

General References

Ganzhorn AJ., et al. (1996) Biochemistry. 35(33): 10957-66. Parthasarathy R., et al. (1997) Brain Res. 778(1): 99-106. Ohnishi T., et al. (2007) J Biol Chem. 282(1): 637-46.

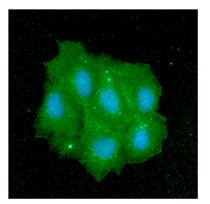
DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human IMPA1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Jurkat cell lysate Lane 2.: Raji cell lysate Lane 3.: NIH/3T3 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

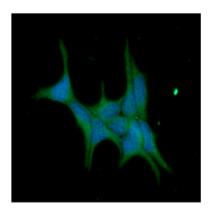


ICC/IF analysis of IMPA1 in Hep3B cells. The cell was stained with ATGA0402 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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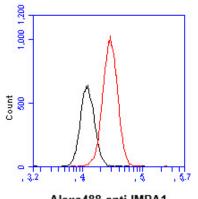
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ICC/IF analysis of IMPA1 in LNCap cells. The cell was stained with ATGA0402 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of IMPA1 in LNCap cell line, staining at 2-5ug for 1x10^6cells (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

Alexa488-anti-IMPA1