

Human MEMO1 antibody

Catalog Number: ATGA0566

PRODUCT INFORMATION

Catalog number

ATGA0566

Clone No.

AT1E9

Product type

Monoclonal antibody

UnitProt No.

Q9Y316

NCBI Accession No.

NP_057039

Alternative Names

Protein MEMO1, C2orf4, CGI-27, MEMO, NS5ATP7

Additional Information

This product was produced from tissue culture supernatant.

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 MEMO1 (1-297aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, FACS

Usage

The antibody has been tested by ELISA, Western blot 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

MEMO1 (Mediator of ErbB2-driven cell motility 1) is a 297 amino acid protein. It is thought to relax extracellular chemotactic signals that are targeted at the microtubule cytoskeleton, thereby controlling cell migration. Additionally, MEMO1 is required for breast carcinoma migration, suggesting an important role in tumorigenesis. The MEMO1-RHOA-DIAPH1 signaling pathway plays an important role in ERBB2-dependent stabilization of microtubules at the cell cortex. It controls the localization of APC and CLASP2 to the cell membrane, via the regulation of GSK3B activity.

General References

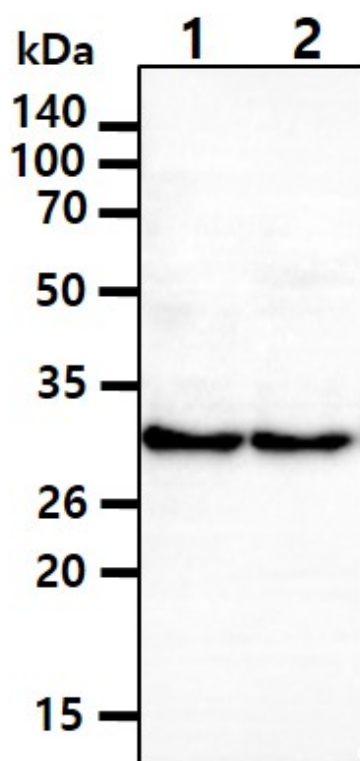
Marone R., et al. (2004) Nat Cell Biol 6(6):515-522.

Meira M., et al. (2009) J Cell Sci 122:787-797.

Zaoui K., et al. (2010) Proc Natl Acad Sci USA 107(43):18517-18522.

DATA

Western blot analysis (WB)



The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human MEMO1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

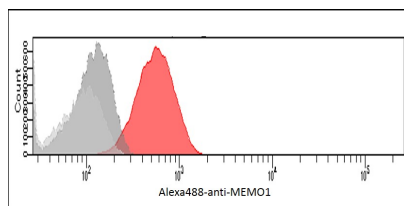
Lane 1.: Jurkat cell lysate

Lane 2.: U87MG cell lysate

Flow cytometry (FACS)

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Flow cytometry analysis of MEMO1 in U87MG cells. The cell was stained with ATGA0566 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).