

# Human MEMO1 antibody

Catalog Number: ATGA0230

## PRODUCT INFORMATION

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**Catalog number**

ATGA0230

**Clone No.**

AT1E9

**Product type**

Monoclonal antibody

**UnitProt No.**

Q9Y316

**NCBI Accession No.**

NP\_057039

**Alternative Names**

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

## PRODUCT SPECIFICATION

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**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-G 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.

**Storage**

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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

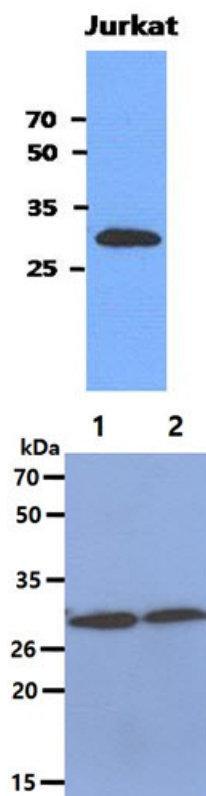
Marone R., et al. (2004) Nat Cell Biol 6(6):515-522

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 lysate of Jurkat (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human MEMO1 antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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Lane 1.: U87MG cell lysate

Lane 2.: Mouse brain tissue lysate

### Flow cytometry (FACS)

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Flow cytometry analysis of MEMO1 in U87MG cell line, staining at 2-5ug for  $1 \times 10^6$  cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.

