PRODUCT INFORMATION

Catalog number ATGA0326

Clone No. AT2G9

Product type Monoclonal Antibody

UnitProt No. P15529

NCBI Accession No. NP_758860

Alternative Names Membrane cofactor protein isoform 14, AHuS2, MCP, MIC10, TLX, TRA2.10

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 CD46 (35-313aa) purified from E. coli

Isotype

lgG2a kappa

Purification Note By protein-A affinity chromatography

Application

ELISA,WB,ICC/IF,IHC,FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF, FACS and IHC 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

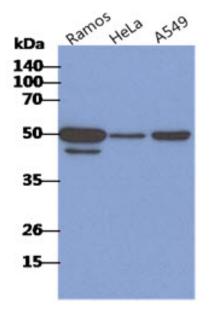
Membrane Cofactor Protein (CD46) is a type 1 membrane protein that plays an important inhibitory role in the complement system. CD46 regulates the complement cascade by inhibiting C3b and C4b deposited on self tissue. This protein is a cofactor that binds to C3b and C4b, allowing their degradation by a plasma serine protease called factor I. This function resides in the complement control protein repeats (CCPs), with CCP1-4 essential for regulation. CD46 is implicated in the development and/or progression of selected cancer types.

General References

Liszewski M.K., et al. (1991) Annu Rev Immunol 9: 431-455. Riley-Varqas R.C., et al. (2004) Trends Immunol 25(9): 496-503. Studebaker A.W., et al. (2010) Neuro Oncol 12: 1034-1042.

DATA

Western blot analysis (WB)



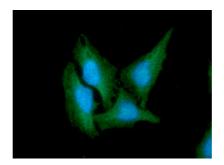
The cell lysates of Ramos, HeLa and A549 (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with antihuman CD46 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)

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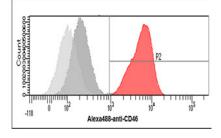


NKMAXBiO We support you, we believe in your research Human CD46 antibody Catalog Number: ATGA0326

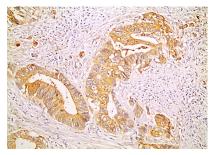


ICC/IF analysis of CD46 in HeLa cells. The cell was stained with ATGA0326 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Immunohistochemistry (IHC)



Flow cytometry analysis of CD46 in PBMC cells. The cell was stained with ATGA0326 at 2-5ug for $1x10^{6}$ 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).

Paraffin embedded sections of human colorectal cancer tissue were incubated with anti-human CD46 (1:100) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine(DAB)