

# [KD Validated] CD46 Rabbit mAb

Catalog No.: A25553 **Recombinant**

## Basic Information

### Observed MW

50-70kDa

### Calculated MW

37-44kDa

### Category

Primary antibody

### Applications

WB,IF/ICC,FC,ELISA

### Cross-Reactivity

Human

### CloneNo number

ARC65046

## Background

The protein encoded by this gene is a type I membrane protein and is a regulatory part of the complement system. The encoded protein has cofactor activity for inactivation of complement components C3b and C4b by serum factor I, which protects the host cell from damage by complement. In addition, the encoded protein can act as a receptor for the Edmonston strain of measles virus, human herpesvirus-6, and type IV pili of pathogenic *Neisseria*. Finally, the protein encoded by this gene may be involved in the fusion of the spermatozoa with the oocyte during fertilization. Mutations at this locus have been associated with susceptibility to hemolytic uremic syndrome. Alternatively spliced transcript variants encoding different isoforms have been described.

## Recommended Dilutions

**WB** 1:1000 - 1:2000**IF/ICC** 1:200 - 1:800**FC** 1:500 - 1:1000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

4179

### Swiss Prot

P15529

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 35-328 of human CD46 (NP\_002380.3).

### Synonyms

MCP; TLX; AHUS2; MIC10; TRA2.10

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

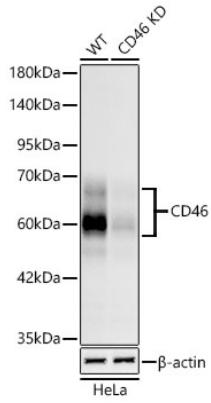
Affinity purification

### Storage

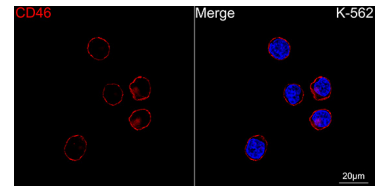
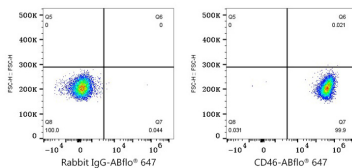
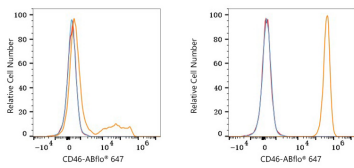
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

## Validation Data



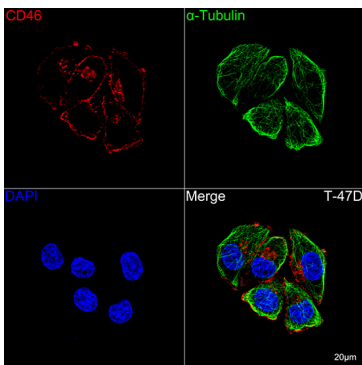
Western blot analysis of lysates from wild type (WT) and CD46 knockdown (KD) HeLa cells using [KD Validated] CD46 Rabbit mAb (A25553) at 1:1000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



Flow cytometry:  $1 \times 10^6$  knockdown (KD) HeLa cells (Low Expression, left) and HeLa cells (right) were surface-stained with [KD Validated] CD46 Rabbit mAb (A25553, 2 µg/mL, orange line) or ABflo® 647 Rabbit IgG isotype control (A22070, 5 µl/Test, blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).

Flow cytometry:  $1 \times 10^6$  HeLa cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5 µl/Test, left) or [KD Validated] CD46 Rabbit mAb (A25553, 2 µg/mL, right).

Confocal imaging of K-562 cells using [KD Validated] CD46 Rabbit mAb (A25553, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal analysis of T-47D cells using [KD Validated] CD46 Rabbit mAb (A25553, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for

## Validation Data

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nuclear staining (Blue). Objective: 100x.