A25553

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[KD Validated] CD46 Rabbit mAb

Catalog No.: A25553 Recombinant

Basic Information

Observed MW
50-70kDa

Calculated MW
37-44kDa

Category
SMab Recombinant Monoclonal 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.

Contact

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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

Product Information

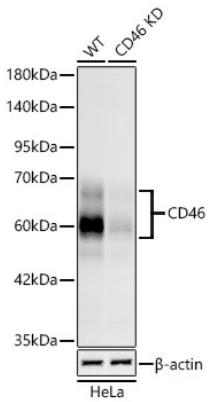
Source
Rabbit

Isotype
IgG

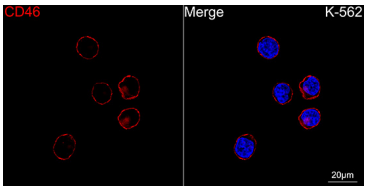
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

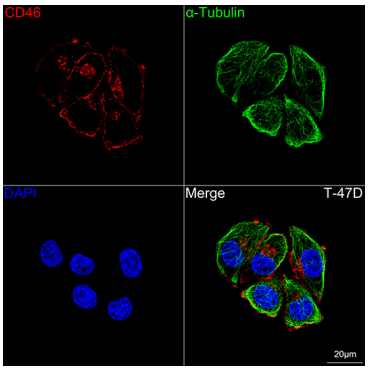
Validation Data



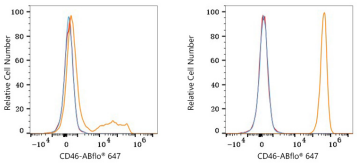
Western blot analysis of lysates from wild type (WT) and CD46 knockdown (KD) HeLa cells using [KD Validated] CD46 Rabbit mAb (A25553) at 1:1000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.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



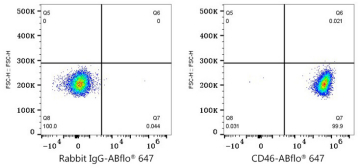
Confocal imaging of K-562 cells using [KD Validated] CD46 Rabbit mAb (A25553, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



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 nuclear staining (Blue). Objective: 100x.



Flow cytometry: 1X10^6 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: 1X10^6 HeLa cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,left) or [KD

Validation Data

Validated] CD46 Rabbit mAb
(A25553,2 μg/mL,right).