Product Name: KD-Validated CD46 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00807
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 43.7kDa

Antigen Information

Gene Name	CD46
Alternative Names	CD46; CD46 Molecule; TLX; TRA2.10; MIC10; MCP; Membrane Cofactor Protein (CD46, Trophoblast-Lymphocyte Cross-Reactive Antigen); Antigen Identified By Monoclonal Antibody TRA-2-10; Trophoblast-Lymphocyte Cross-Reactive Antigen; CD46 Molecule, Complement Regulatory Protein; CD46 Antigen, Complement Regulatory Protein; Trophoblast Leukocyte Common Antigen; Membrane Cofactor Protein; MGC26544; Complement Membrane Cofactor Protein; Trophoblast Leucocyte Common Antigen; Measles Virus Receptor; CD46 Antigen; AHUS2
Gene ID	4179.0
SwissProt ID	P15529
Immunogen	A synthesized peptide derived from human CD46

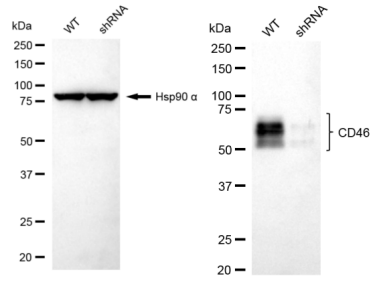
Background

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. [provided by RefSeq, Jun 2010]

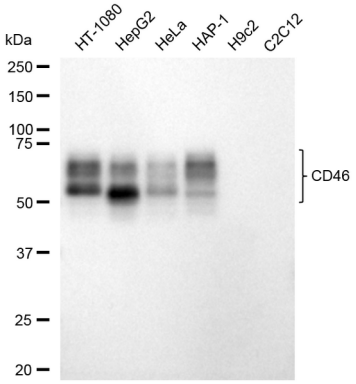
Research Area

Immunology

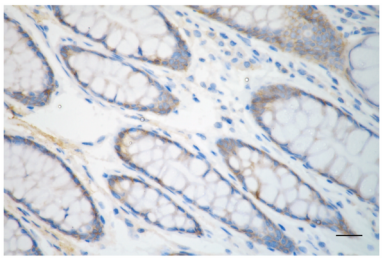
Image Data



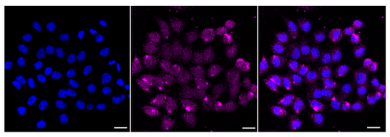
Western blotting analysis using CD46 antibody (KVAb00807). CD46 expression in wild type (WT) and CD46 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CD46 antibody (KVAb00807, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

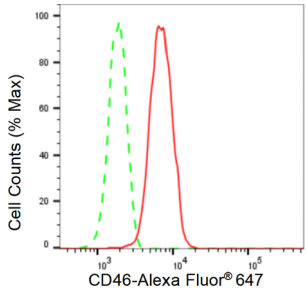


Western blotting analysis using CD46 antibody (KVAb00807). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CD46 antibody (KVAb00807, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using CD46 antibody (KVAb00807, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.





Immunocytochemical staining of HepG2 cells with CD46 antibody (KVAb00807, 1:1,000). Nuclei were stained blue with DAPI; CD46 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 μm.

Flow cytometric analysis of CD46 expression in HepG2 cells using CD46 antibody (KVAb00807, 1:2,000). Green, isotype control; red, CD46.