

Product Name: KD-Validated CD82 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01059**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
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
Molecular Weight	Calculated MW: 29.6kDa

Antigen Information

Gene Name	CD82
Alternative Names	CD82; CD82 Molecule 2; TSPAN27; IA4; CD82 Antigen; KAI1; R2; Kangai 1 (Suppression Of Tumorigenicity 6, Prostate; CD82 Antigen (R2 Leukocyte Antigen, Antigen Detected By Monoclonal And Antibody IA4)); Metastasis Suppressor Kangai-1; Inducible Membrane Protein R2; Tetraspanin-27; C33 Antigen; Tspan-27; SAR2; Suppressor Of Tumorigenicity 6 Protein; Suppression Of Tumorigenicity 6; R2 Leukocyte Antigen; GR15; 4F9; C33
Gene ID	3732.0
SwissProt ID	P27701
Immunogen	A synthesized peptide derived from human CD82

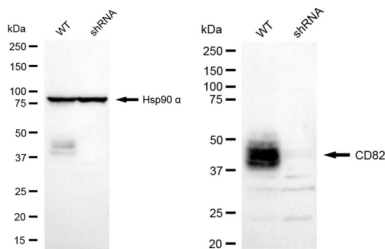
Background

This metastasis suppressor gene product is a membrane glycoprotein that is a member of the transmembrane 4 superfamily. Expression of this gene has been shown to be downregulated in tumor progression of human cancers and can be activated by p53 through a consensus binding sequence in the promoter. Its expression and that of p53 are strongly correlated, and the loss of expression of these two proteins is associated with poor survival for prostate cancer patients. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

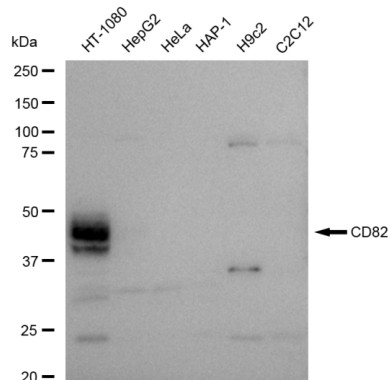
Research Area

Immunology, Epigenetics and Nuclear Signaling, Cancer

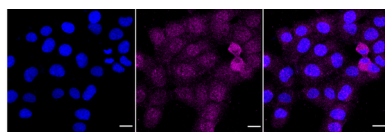
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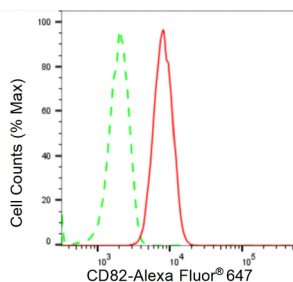
Western blotting analysis using CD82 antibody (KVA01059). CD82 expression in wild type (WT) and CD82 shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CD82 antibody (KVA01059, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using CD82 antibody (KVA01059). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CD82 antibody (KVA01059, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with CD82 antibody (KVA01059, 1:1,000). Nuclei were stained blue with DAPI; CD82 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 CD82 expression in HT-1080 cells using CD82 antibody (KVA01059, 1:2,000). Green, isotype control; red, CD82.