

Product Name: KD-Validated CD147 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01276**

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: 42.2kDa

Antigen Information

Gene Name	BSG
Alternative Names	BSG; Basigin (Ok Blood Group); EMMPRIN; Tumor Cell-Derived Collagenase Stimulatory Factor; Extracellular Matrix Metalloproteinase Inducer; Basigin; EMPRIN; CD147; Leukocyte Activation Antigen M6; Collagenase Stimulatory Factor; Hepatoma-Associated Antigen; OK Blood Group Antigen; HAntibody18G; TCSF; 5F7; OK; Ok Blood Group; CD147 Antigen
Gene ID	682.0
SwissProt ID	P35613
Immunogen	A synthesized peptide derived from human CD147

Background

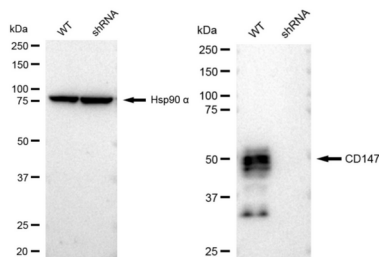
The protein encoded by this gene, basigin, is a plasma membrane protein that is important in spermatogenesis, embryo

implantation, neural network formation, and tumor progression. Basigin is also a member of the immunoglobulin superfamily, ubiquitously expressed in various tissues. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2020]

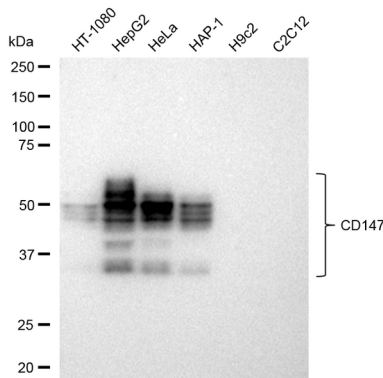
Research Area

Immunology, Neuroscience, Microbiology, Cancer, Metabolism, Cardiovascular

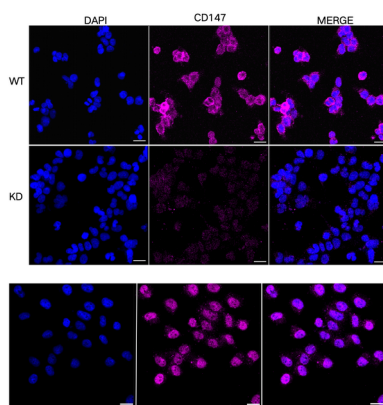
Image Data



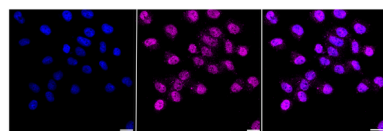
Western blotting analysis using CD147 antibody (KVA01276). CD147 expression in wild type (WT) and CD147 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CD147 antibody (KVA01276, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



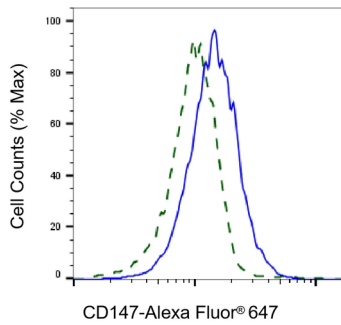
Western blotting analysis using CD147 antibody (KVA01276). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CD147 antibody (KVA01276, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



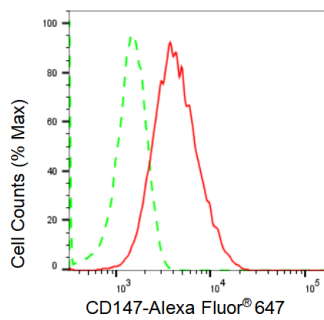
Immunocytochemical staining of HeLa cells using CD147 antibody (KVA01276, 1:1,000), Top panel: wild-type (WT); Bottom panel: CD147 shRNA knockdown (KD). Nuclei were stained blue with DAPI; CD147 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with CD147 antibody (KVA01276, 1:1,000). Nuclei were stained blue with DAPI; CD147 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.



Validation of CD147 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with CD147 antibody (KVA01276, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of CD147 expression in HepG2 cells using CD147 antibody (KVA01276, 1:2,000). Green, isotype control; red, CD147.