Product Name: KD-Validated EXOSC1 Mouse Monoclonal Antibody
Catalog #: KVAb00557
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse 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 1:500-1:2,500; FC 1:100-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 21.5kDa

Antigen Information

Gene Name	EXOSC1
Alternative Names	EXOSC1; Exosome Component 1; CSL4; CGI-108; Csl4p; Ski4p; SKI4; P13; Exosome Complex Component CSL4; HCsl4p; Homolog Of Yeast Exosomal Core Protein CSL4; CSL4 Exosomal Core Protein Homolog (Yeast); 3'-5' Exoribonuclease CSL4 Homolog; Exosomal Core Protein CSL4; PCH1F
Gene ID	51013.0
SwissProt ID	Q9Y3B2
Immunogen	Recombinant protein of human EXOSC1

Background

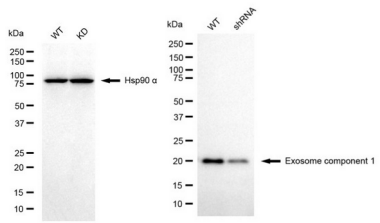
This gene encodes a core component of the exosome. The mammalian exosome is required for rapid degradation of AU rich

element-containing RNAs but not for poly(A) shortening. The association of this protein with the exosome is mediated by protein-protein interactions with ribosomal RNA-processing protein 42 and ribosomal RNA-processing protein 46. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2016]

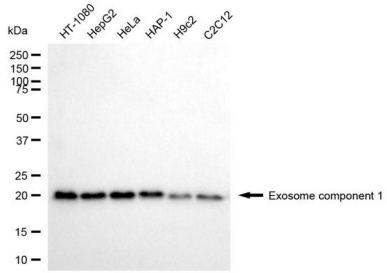
Research Area

Immunology,Epigenetics and Nuclear Signaling

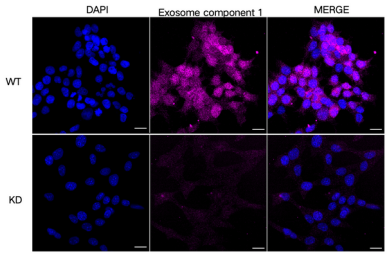
Image Data



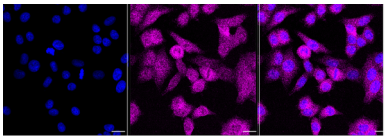
Western blotting analysis using exosome component 1 antibody (KVAb00557). Exosome component 1 expression in wild-type (WT) and exosome component 1 (EXOSC1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with exosome component 1 antibody (KVAb00557, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



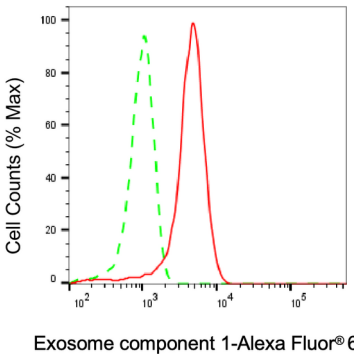
Western blotting analysis using exosome component 1 antibody (KVAb00557). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with exosome component 1 antibody (KVAb00557, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using Exosome component 1 antibody (KVAb00557, 1:1,000), Top panel: wild-type (WT); Bottom panal: Exosome component 1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Exosome component 1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with Exosome component 1 antibody (KVAb00557, 1:500) . Nuclei were stained blue with DAPI; Exosome component 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Flow cytometric analysis of Exosome component 1 expression in HepG2 cells using Exosome component 1 antibody (KVAb00557, 1:1,000). Green, isotype control; red, Exosome component 1.