

## [KD Validated] Anti-EXOSC1 Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

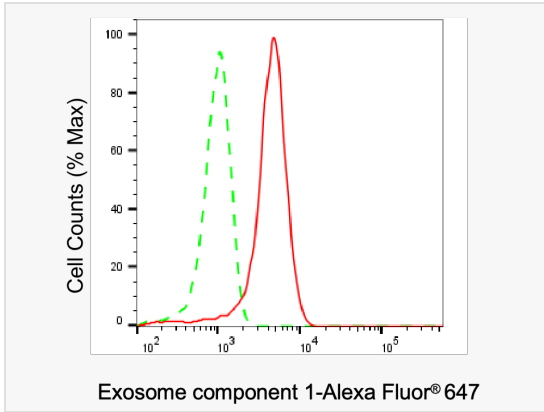
Catalog # M020630

### Product Information

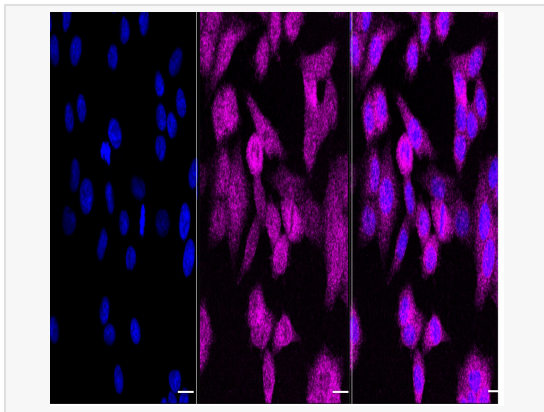
Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:500~1:2,500; FC 1:100~1:1,000; IF 1:100~1:1,000
Host	Mouse
Clonality	Monoclonal
Clone No.	79N58C51
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human EXOSC1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-EXOSC1 Mouse mAb [79N58C51] is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

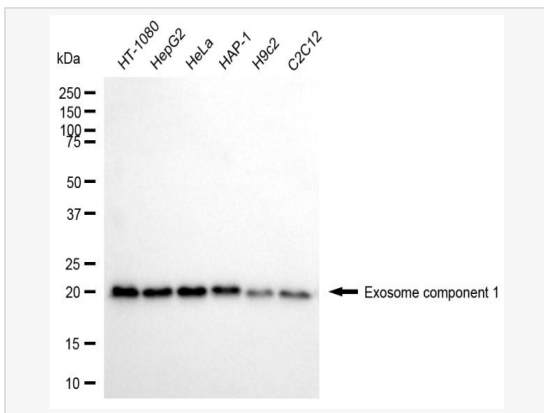
Synonyms	EXOSC1; Exosome Component 1; CSL4; CGI-108; Csl4p; Ski4p; SKI4; P13; Exosome Complex Component CSL4; HCs14p; Homolog Of Yeast Exosomal Core Protein CSL4; CSL4 Exosomal Core Protein Homolog (Yeast); 3'-5' Exoribonuclease CSL4 Homolog; Exosomal Core Protein CSL4; PCHIF.
Calculated MW	Calculated MW: 21 kDa; Observed MW: 21 kDa
Uniprot ID	Q9Y3B2
Gene ID	51013
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.



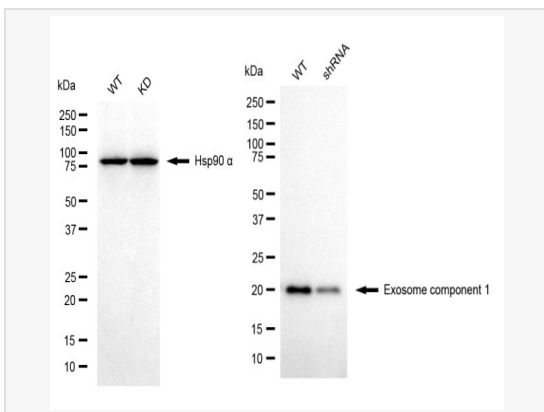
Flow cytometric analysis of Exosome component 1 expression in HepG2 cells using Exosome component 1 antibody (M020630, 1:1,000). Green, isotype control; red, Exosome component 1.



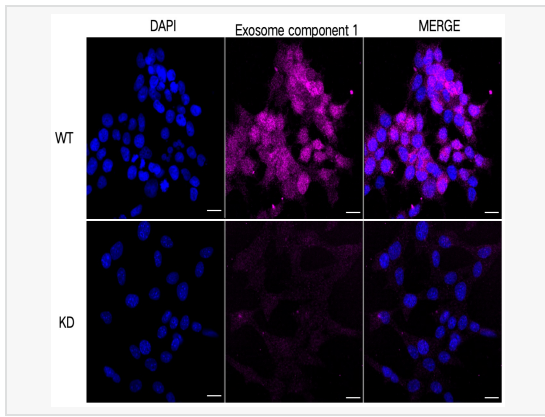
Immunocytochemical staining of HepG2 cells with Exosome component 1 antibody (M020630, 1:500). Nuclei were stained blue with DAPI; Exosome component 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 μm.



Western blotting analysis using exosome component 1 antibody (M020630). 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 (M020630, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using exosome component 1 antibody (M020630). 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 (M020630, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Immunocytochemical staining of HeLa cells using Exosome component 1 antibody (M020630, 1:1,000), Top panel: wild-type (WT); Bottom panel: Exosome component 1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Acyl-CoA dehydrogenase short chain was stained magenta with Alexa Fluor® 647. Scale bar, 20  $\mu\text{m}$ .