

Product Name: KD-Validated Cell Division Cycle 123 Mouse Monoclonal Antibody**Catalog #: KVA00689**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2b
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 1:2,500-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 39.1kDa

Antigen Information

Gene Name	CDC123 CDC123; Cell Division Cycle 123; D123; Cell Division Cycle Protein 123 Homolog; C10orf7;
Alternative Names	HT-1080; PZ32; Cell Division Cycle 123 Homolog (S. Cerevisiae); Chromosome 10 Open Reading Frame 7; Cell Division Cycle 123 Homolog; Protein D123; C10ORF7
Gene ID	8872.0
SwissProt ID	O75794
Immunogen	Recombinant protein of human CDC123

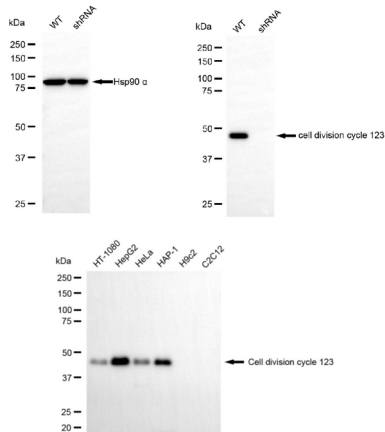
Background

Enables ATP binding activity and magnesium ion binding activity. Involved in eukaryotic translation initiation factor 2 complex assembly. Located in cytoplasm. [provided by Alliance of Genome Resources, Jul 2025]

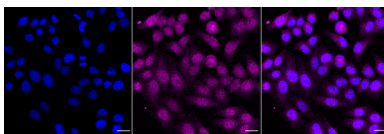
Research Area

Cell Biology

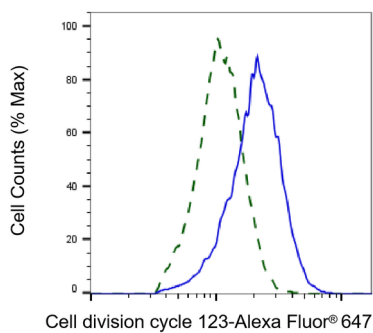
Image Data



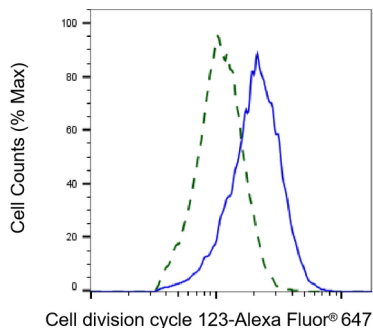
Western blotting analysis using cell division cycle 123 antibody (KVA00689). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with cell division cycle 123 antibody (KVA00689, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Cell division cycle 123 antibody (KVA00689, 1:1,000). Nuclei were stained blue with DAPI; Cell division cycle 123 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.



Validation of Cell division cycle 123 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Cell division cycle 123 antibody (KVA00689, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of cell division cycle 123 expression in HepG2 cells using cell division cycle 123 antibody (KVA00689, 1:2,000). Green, isotype control; red, cell division cycle 123.