

KD-Validated Anti-Cell Division Cycle 123 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1856**Specification****KD-Validated Anti-Cell Division Cycle 123 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	O75794
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 39 kDa, observed, 39 kDa kDa
Gene Name	CDC123
Aliases	CDC123; Cell Division Cycle 123; D123; Cell Division Cycle Protein 123 Homolog; C10orf7; HT-1080; PZ32; Cell Division Cycle 123 Homolog (S. Cerevisiae); Chromosome 10 Open Reading Frame 7; Cell Division Cycle 123 Homolog; Protein D123; C10ORF7
Immunogen	A synthesized peptide derived from human CDC123

KD-Validated Anti-Cell Division Cycle 123 Rabbit Monoclonal Antibody - Additional Information

Gene ID	8872
Other Names	
Translation initiation factor eIF2 assembly protein, Cell division cycle protein 123 homolog, Protein D123, HT-1080, PZ32, CDC123, C10orf7, D123	

KD-Validated Anti-Cell Division Cycle 123 Rabbit Monoclonal Antibody - Protein Information**Name** CDC123**Synonyms** C10orf7, D123**Function**

ATP-dependent protein-folding chaperone for the eIF2 complex (PubMed:35031321, PubMed:37507029). Binds to the gamma subunit of the eIF2 complex which allows the subunit to assemble with the alpha and beta subunits (By similarity).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q62834}.

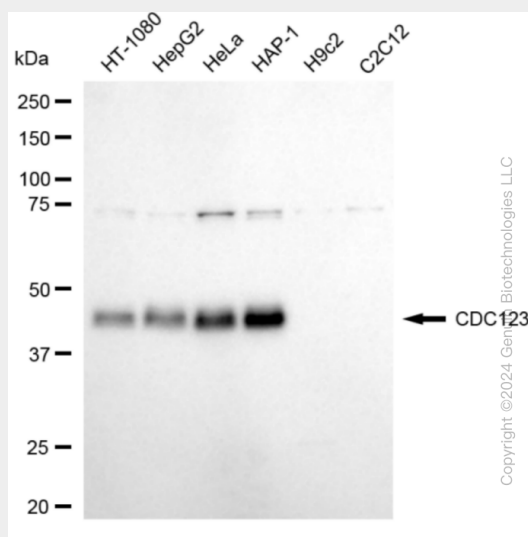
Tissue Location

Widely expressed. Expressed in spleen, thymus, prostate, testis, ovary, small intestine, colon and leukocytes with the highest expression in testis.

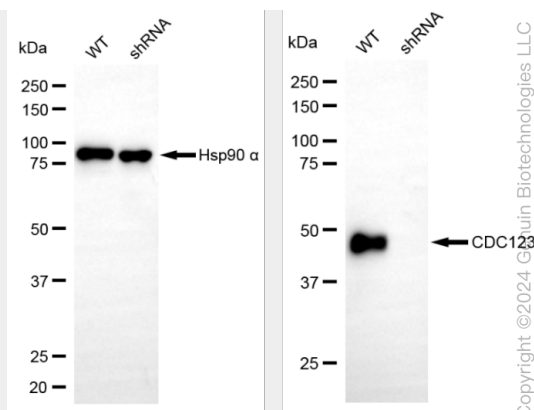
KD-Validated Anti-Cell Division Cycle 123 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

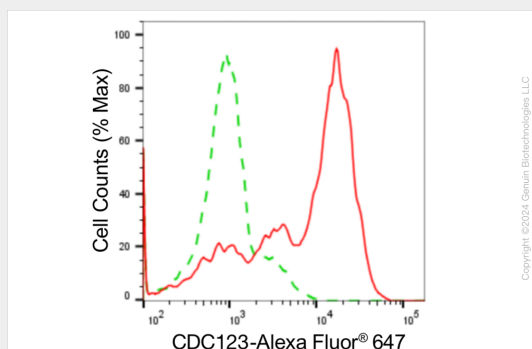
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Cell Division Cycle 123 Rabbit Monoclonal Antibody - Images

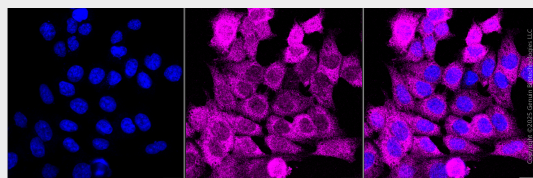
Western blotting analysis using anti-CDC123 antibody (Cat#63261). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CDC123 antibody (Cat#63261, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).



Western blotting analysis using anti-CDC123 antibody (Cat#63261). CDC123 expression in wild-type (WT) and CDC123 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-CDC123 antibody (Cat#63261, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).



Flow cytometric analysis of CDC123 expression in HAP-1 cells using anti-CDC123 antibody (Cat#63261, 1:2,000). Green, isotype control; red, CDC123.



Immunocytochemical staining of HAP1 cells with anti-CDC123 antibody (Cat#63261, 1:1,000). Nuclei were stained blue with DAPI; CDC123 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.