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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}.

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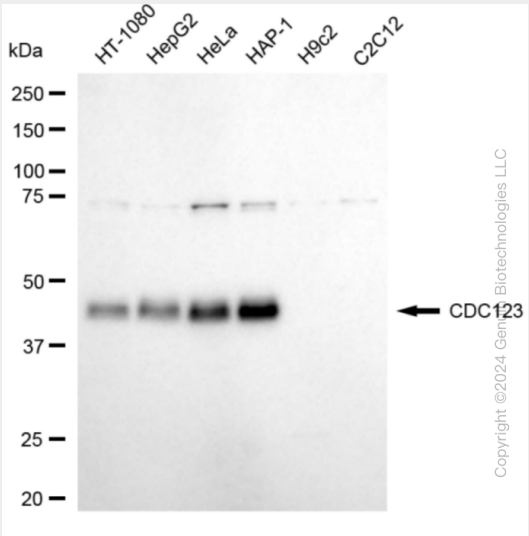
Tissue Location
Widely expressed. Expressed in spleen, thymus, prostate, testis, ovary, small intestine, colon and leukocytes with the highest expression in testis.

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

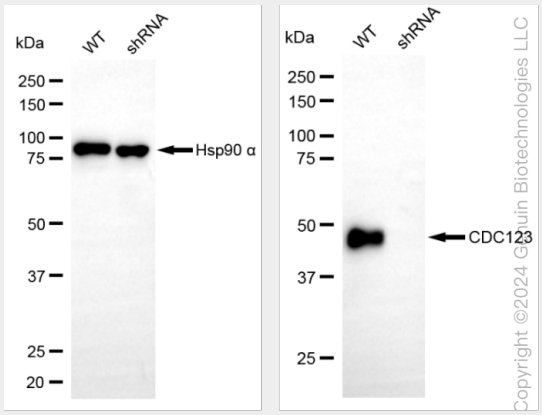
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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



Western blotting analysis using anti-CDC123 antibody (Cat#AGI1856). 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#AGI1856, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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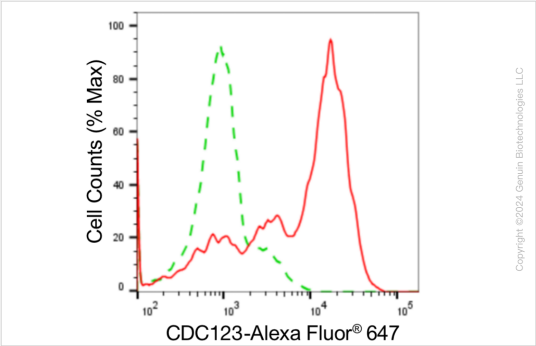
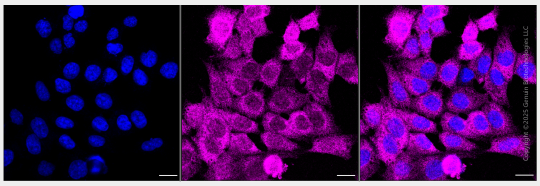
Western blotting analysis using anti-CDC123 antibody (Cat#AGI1856). CDC123 expression in wild-type (WT) and CDC123 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-CDC123 antibody (Cat#AGI1856, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of CDC123 expression in HAP-1 cells using anti-CDC123 antibody (Cat#AGI1856, 1:2,000). Green, isotype control; red,CDC123.



Immunocytochemical staining of HAP1 cells with anti-CDC123 antibody (Cat#AGI1856, 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.