

Rabbit anti-Human CDC123 Polyclonal Antibody | anti-CDC123 antibody

Anti-CDC123 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19323	Rabbit	Human	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

CDC123; Polyclonal Antibody; Anti-CDC123 Antibody; C10orf7; D123; Cell division cycle protein 123 homolog; Protein D123; HT-1080; PZ32; cell division cycle 123; anti-CDC123 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for CDC123 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-CDC123 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.25-0.5ug/ml Human IHC-P: 2-5ug/ml Human ICC/IF: 5ug/ml Human FC/FACS/FCM: 1-3ug/1x106 cells Human Direct ELISA: 0.1-0.5ug/ml Human
Immunogen	E Coli-derived human CDC123 recombinant protein (Position: M1-D336).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

Figure 11. Flow Cytometry analysis of THP-1 cells using anti-CDC123 antibody (AAA19323). Overlay histogram showing THP-1 cells stained with AAA19323 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CDC123 Antibody (AAA19323, 1μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 10. IF analysis of CDC123 using anti- CDC123 antibody (AAA19323). CDC123 was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti- CDC123 Antibody (AAA19323) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 9. IHC analysis of CDC123 using anti-CDC123 antibody (AAA19323). CDC123 was detected in paraffin-embedded section of human pancreatic cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-CDC123 Antibody (AAA19323) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 8. IHC analysis of CDC123 using anti-CDC123 antibody (AAA19323). CDC123 was detected in paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-CDC123 Antibody (AAA19323) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 7. IHC analysis of CDC123 using anti-CDC123 antibody (AAA19323). CDC123 was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-CDC123 Antibody (AAA19323) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 6. IHC analysis of CDC123 using anti-CDC123 antibody (AAA19323). CDC123 was detected in paraffin-embedded section of human bladder cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-CDC123 Antibody (AAA19323) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).

ADDITIONAL INFORMATION

Related Product Information for anti-CDC123 antibody	Cell division cycle protein 123 homolog is a protein that in humans is encoded by the CDC123 gene. It is mapped to chromosome 10p14-p13. CDC123 is predicted to function as an assembly factor for eukaryotic translation initiation factor-2, which recruits initiator met-tRNA to the 40S ribosome to begin protein synthesis.
References	1. Hartz, P. A. Personal Communication. Baltimore, Md. 9/29/2017. 2. Okuda, A., Kimura, G. An amino acid change in novel protein D123 is responsible for temperature-sensitive G1-phase arrest in a mutant of rat fibroblast line 3Y1. Exp. Cell Res. 223: 242-249, 1996. 3. Onisto, M., Zeilante, P., Scannapieco, P., Pellati, D., Pozza, M., Caenazzo, C., Negro, A., Garbisa, S. Expression study on D123 gene product: evidence for high positivity in testis. Exp. Cell Res. 242: 451-459, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	221316620
NCBI GeneID	8872
NCBI Accession #	NP_006014.2
NCBI GenBank Nucleotide #	NM_006023.2

UniProt Accession #	O75794; Q14107; Q5T0L4; Q5T0L5; Q5T0L7; Q5T0L8; Q5T0L9; A8JZZ7
Molecular Weight	39,135 Da
NCBI Official Full Name	cell division cycle protein 123 homolog
NCBI Official Synonym Full Names	cell division cycle 123
NCBI Official Symbol	CDC123
NCBI Official Synonym Symbols	D123; C10orf7
NCBI Protein Information	cell division cycle protein 123 homolog; HT-1080; PZ32; cell division cycle 123 homolog
UniProt Protein Name	Cell division cycle protein 123 homolog
UniProt Gene Name	CDC123
UniProt Synonym Gene Names	C10orf7; D123; Protein D123
UniProt Entry Name	CD123_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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