

Mouse CDC45L Monoclonal Antibody | anti-CDC45 antibody

Anti-CDC45L Antibody (monoclonal, 6H6)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19360	Mouse	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CDC45L; Monoclonal Antibody; Anti-CDC45L Antibody (monoclonal; 6H6); CDC45; CDC45L2; UNQ374/PRO710; Cell division control protein 45 homolog; PORC-PI-1; cell division cycle 45; anti-CDC45 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	6H6
Specificity	Mouse IgG monoclonal antibody for CDC45L detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-CDC45 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.25-0.5ug/ml Human IHC-P: 2-5ug/ml Human, Mouse, Rat FC/FACS/FCM: 1-3ug/1x106 cells Human
Immunogen	E Coli-derived human CDC45L recombinant protein (Position: E166-A431).
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.

IMAGES



FCM (Flow Cytometry)

Figure 9. Flow Cytometry analysis of 293T cells using anti-CDC45L antibody (AAA19360). Overlay histogram showing 293T cells stained with AAA19360 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-CDC45L Antibody (AAA19360, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 8. IHC analysis of CDC45L using anti-CDC45L antibody (AAA19360). CDC45L was detected in paraffin-embedded section of mouse thymus 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 mouse anti-CDC45L Antibody (AAA19360) overnight at 4 degree C. Biotinylated goat anti-mouse 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).



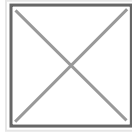
IHC (Immunohistochemistry)

Figure 7. IHC analysis of CDC45L using anti-CDC45L antibody (AAA19360). CDC45L was detected in paraffin-embedded section of rat testis 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 mouse anti-CDC45L Antibody (AAA19360) overnight at 4 degree C. Biotinylated goat anti-mouse 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).



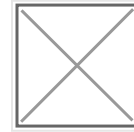
IHC (Immunohistochemistry)

Figure 6. IHC analysis of CDC45L using anti-CDC45L antibody (AAA19360). CDC45L was detected in paraffin-embedded section of human prostate 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 mouse anti-CDC45L Antibody (AAA19360) overnight at 4 degree C. Biotinylated goat anti-mouse 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 5. IHC analysis of CDC45L using anti-CDC45L antibody (AAA19360). CDC45L 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 mouse anti-CDC45L Antibody (AAA19360) overnight at 4 degree C. Biotinylated goat anti-mouse 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 4. IHC analysis of CDC45L using anti-CDC45L antibody (AAA19360). CDC45L was detected in paraffin-embedded section of human esophageal squamous carcinoma 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 mouse anti-CDC45L Antibody (AAA19360) overnight at 4 degree C. Biotinylated goat anti-mouse 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-CDC45 antibody	CDC45 is a protein that in humans is encoded by the CDC45L gene. The protein encoded by this gene was identified by its strong similarity with <i>Saccharomyces cerevisiae</i> Cdc45, an essential protein required to the initiation of DNA replication. Cdc45 is a member of the highly conserved multiprotein complex including Cdc6/Cdc18, the minichromosome maintenance proteins (MCMs) and DNA polymerase, which is important for early steps of DNA replication in eukaryotes. This protein has been shown to interact with MCM7 and DNA polymerase alpha. Studies of the similar gene in <i>Xenopus</i> suggested that this protein play a pivotal role in the loading of DNA polymerase alpha onto chromatin. Alternate splicing results in multiple transcript variants.
References	1. "Entrez Gene: CDC45L CDC45 cell division cycle 45-like (<i>S. cerevisiae</i>)". 2. McKie JM, Wadey RB, Sutherland HF, Taylor CL, Scambler PJ (Sep 1998). "Direct selection of conserved cDNAs from the DiGeorge critical region: isolation of a novel CDC45-like gene". <i>Genome Res.</i> 8 (8): 834-41. 3. Saha P, Thome KC, Yamaguchi R, Hou Z, Weremowicz S, Dutta A (Aug 1998). "The human homolog of <i>Saccharomyces cerevisiae</i> CDC45". <i>J. Biol. Chem.</i> 273 (29): 18205-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6685264
NCBI GeneID	8318
UniProt Accession #	O75419 ; O60856 ; Q20WK8 ; Q6UW54 ; Q9UP68 ; B4DDB4 ; B4DDU3 ; E9PDH7
Molecular Weight	566
NCBI Official Full Name	Cell division control protein 45 homolog
NCBI Official Synonym Full Names	cell division cycle 45
NCBI Official Symbol	CDC45
NCBI Official Synonym Symbols	CDC45L; CDC45L2; PORC-PI-1
NCBI Protein Information	cell division control protein 45 homolog; human CDC45; CDC45-related protein; cell division cycle 45-like 2; cell division cycle 45 homolog; CDC45 cell division cycle 45 homolog
UniProt Protein Name	Cell division control protein 45 homolog

UniProt Gene Name	CDC45
UniProt Synonym Gene Names	CDC45L; CDC45L2
UniProt Entry Name	CDC45_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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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cdc45l-antibody-clone-6h6-western-blot-immunohistochemistry-flow-cytometry-elisa/19360>