Rabbit anti-Human CHD4 Polyclonal Antibody | anti-CHD4 antibody

Anti-CHD4 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127037	**Rabbit**	**Human**	**Flow Cytometry, Functional Assay, Western Blot**

PRODUCT SYNONYMS

CHD4; Polyclonal Antibody; Anti-CHD4 Antibody Picoband; Chromodomain-helicase-DNA-binding protein 4; chromodomain helicase DNA binding protein 4; CHD-4; EC 3.6.4.12; ATP-dependent helicase CHD4; Mi-2 autoantigen 218 kDa protein; Mi2-beta; anti-CHD4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-CHD4 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human CHD4, identical to the related mouse sequences.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES

FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of MCF-7 cells using anti-CHD4 antibody (AAA127037).Overlay histogram showing MCF-7 cells stained with AAA127037 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CHD4 Antibody (AAA127037, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

WB (Western Blot)
Figure 1. Western blot analysis of CHD4 using anti-CHD4 antibody (AAA127037).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human U20S whole cell lysates,Lane 2: human HEL whole cell lysates,Lane 3: human K562 whole cell lysates,Lane 4: human MCF-7 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CHD4 antigen affinity purified polyclonal antibody (#AAA127037) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CHD4 at approximately 260 kDa. The expected band size for CHD4 is at 218 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CHD4 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-CHD4 antibody	Primary Antibodies
References	1. Lan, X., Ren, R., Feng, R., Ly, L. C., Lan, Y., Zhang, Z., Aboreden, N., Qin, K., Horton, J. R., Grevet, J. D., Mayuranathan, T., Abdulmalik, O., Keller, C. A., Giardine, B., Hardison, R. C., Crossley, M., Weiss, M. J., Cheng, X., Cheng, X., Shi, J., Blobel, G. A. ZNF410 uniquely activates the NuRD component CHD4 to silence fetal hemoglobin expression. Molec. Cell 81: 239-254, 2021.2. Le Gallo, M., O'Hara, A. J., Rudd, M. L., Urick, M. E., Hansen, N. F., O'Neil, N. J., Price, J. C., Zhang, S., England, B. M., Godwin, A. K., Sgroi, D. C., NIH Intramural Sequencing Center (NISC) Comparative Sequencing Program, Hieter, P., Mullikan, J. C., Merino, M. J., Bell, D. W. Exome sequencing of serous endometrial tumors identifies recurrent somatic mutations in chromatin-remodeling and ubiquitin ligase complex genes. Nature Genet. 44: 1310-1315, 2012.3. Ostapcuk, V., Mohn, F., Carl, S. H., Basters, A., Hess, D., Iesmantavicius, V., Lampersberger, L., Flemr, M., Pandey, A., Thoma, N. H., Betschinger, J., Buhler, M. Activity-dependent neuroprotective protein recruits HP1 and CHD4 to control lineage-specifying genes. Nature 557: 739-743, 2018.

NCBI AND UNIPROT INFORMATION

NCBI GI #	51599156
NCBI GeneID	1108
NCBI Accession #	NP_001264.2
NCBI GenBank Nucleotide #	NM_001273.2
UniProt Accession #	Q14839; Q8IXZ5
Molecular Weight	218,005 Da
NCBI Official Full Name	chromodomain-helicase-DNA-binding protein 4
NCBI Official Synonym Full Names	chromodomain helicase DNA binding protein 4
NCBI Official Symbol	CHD4
NCBI Official Synonym Symbols	Mi-2b; Mi2-BETA
NCBI Protein Information	chromodomain-helicase-DNA-binding protein 4; CHD-4; ATP-dependent helicase CHD4; Mi-2 autoantigen 218 kDa protein
UniProt Protein Name	Chromodomain-helicase-DNA-binding protein 4
UniProt Gene Name	**CHD4**
UniProt Synonym Gene Names	CHD-4
UniProt Entry Name	CHD4_HUMAN

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AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/polyclonal/chd4-antibody-flow-cytometry-western-blot-elisa/127037