

Mouse anti-Human Cbx8 Monoclonal Antibody | anti-CBX8 antibody

Anti-Cbx8 Antibody (monoclonal, 8G7)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125934	Mouse	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

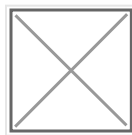
PRODUCT SYNONYMS

Cbx8; Monoclonal Antibody; Anti-Cbx8 Antibody (monoclonal; 8G7); Chromobox protein homolog 8; Polycomb 3 homolog; Pc3; hPc3; Rectachrome 1; CBX8; PC3; RC1; chromobox 8; anti-CBX8 antibody

PRODUCT SPECIFICATIONS

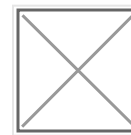
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	8G7
Specificity	Mouse IgG monoclonal antibody for Cbx8 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-CBX8 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Cbx8 recombinant protein (Position: M1-R389).
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/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HL-60 cells using anti-Cbx8 antibody (AAA125934). Overlay histogram showing HL-60 cells stained with AAA125934 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti- Cbx8 Antibody (AAA125934, 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 2. IHC analysis of Cbx8 using anti-Cbx8 antibody (AAA125934). Cbx8 was detected in paraffin-embedded section of human gallbladder adenocarcinoma 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-Cbx8 Antibody (AAA125934) 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) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Cbx8 using anti-Cbx8 antibody (AAA125934). 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 30ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates Lane 2: human A549 whole cell lysates Lane 3: human Raji whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-Cbx8 antigen affinity purified monoclonal antibody (Catalog # AAA125934) at 0.5 µg/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-mouse IgG-HRP secondary antibody at a dilution of 1:10000 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 Cbx8 at approximately 45KD. The expected band size for Cbx8 is at 45KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CBX8 antibody	CBX8 functions as a transcriptional repressor and has a role in DNA damage response. This gene is mapped to chromosome 17q25.3 based on an alignment of the CBX8 sequence with the genomic sequence (GRCh38).
References	1. Bardos, J. I., Saurin, A. J., Tissot, C., Duprez, E., Freemont, P. S. HPC3 is a new human Polycomb orthologue that interacts and associates with RING1 and Bmi1 and has transcriptional repression properties. J. Biol. Chem. 275: 28785-28792, 2000. 2. Oza, J., Ganguly, B., Kulkarni, A., Ginjala, V., Yao, M., Ganesan, S. A novel role of chromodomain protein CBX8 in DNA damage response. J. Biol. Chem. 291: 22881-22893, 2016. Note: Erratum: J. Biol. Chem. 292: 761 only, 2017.

NCBI AND UNIPROT INFORMATION

NCBI GI #	78099843
NCBI GeneID	57332
UniProt Accession #	Q9HC52; Q96H39; Q9NR07
Molecular Weight	389
NCBI Official Full Name	Chromobox protein homolog 8
NCBI Official Synonym Full Names	chromobox homolog 8
NCBI Official Symbol	CBX8
NCBI Official Synonym Symbols	PC3; RC1
NCBI Protein Information	chromobox protein homolog 8; polycomb 3; rectachrome 1; Pc class 3 homolog; chromobox homolog 8 (Pc class homolog, Drosophila)
UniProt Protein Name	Chromobox protein homolog 8
UniProt Gene Name	CBX8
UniProt Synonym Gene Names	PC3; RC1; Pc3; hPc3
UniProt Entry Name	CBX8_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/cbx8-antibody-clone-8g7-flow-cytometry-immunohistochemistry-western-blot-elisa/125934>