

**Anti-Cbx8 Antibody Picoband™ (monoclonal, 8G7)**  
Catalog # ABO15052

**Specification**

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**Anti-Cbx8 Antibody Picoband™ (monoclonal, 8G7) - Product Information**

Application	WB, IHC, FC
Primary Accession	<a href="#">Q9HC52</a>
Host	Mouse
Isotype	Mouse IgG2b
Reactivity	Human
Clonality	Monoclonal
Format	Lyophilized

**Description**

Anti-Cbx8 Antibody Picoband™ (monoclonal, 8G7) . Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Cbx8 Antibody Picoband™ (monoclonal, 8G7) - Additional Information**

**Gene ID** 57332

**Other Names**

Chromobox protein homolog 8, Polycomb 3 homolog, Pc3, hPc3, Rectachrome 1, CBX8, PC3, RC1

**Calculated MW**

45 kDa KDa

**Application Details**

Western blot, 0.25-0.5 µg/ml, Human<br> Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/ml, Human<br> Flow Cytometry, 1-3 µg/1x10<sup>6</sup> cells, Human<br>

**Contents**

Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na<sub>2</sub>HPO<sub>4</sub>.

**Immunogen**

E.coli-derived human Cbx8 recombinant protein (Position: M1-R389).

**Purification**

Immunogen affinity purified.

**Storage**

**Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.**

**Anti-Cbx8 Antibody Picoband™ (monoclonal, 8G7) - Protein Information**

**Name** CBX8

**Synonyms** PC3, RC1

**Function**

Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility.

**Cellular Location**

Nucleus.

**Anti-Cbx8 Antibody Picoband™ (monoclonal, 8G7) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Cbx8 Antibody Picoband™ (monoclonal, 8G7) - Images**

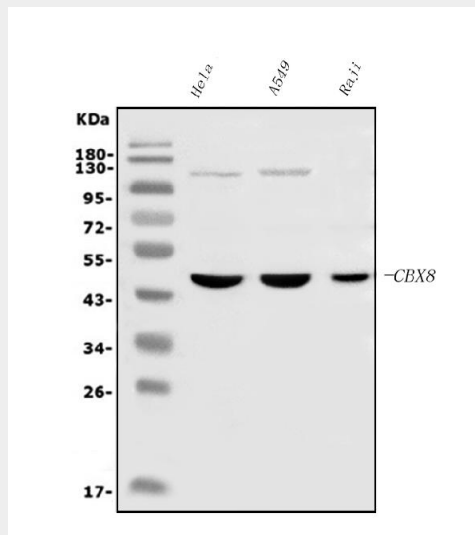


Figure 1. Western blot analysis of Cbx8 using anti-Cbx8 antibody (M05234).

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 # M05234) at 0.5 µg/mL overnight at 4°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 (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for Cbx8 at approximately 45KD. The expected band size for Cbx8 is at 45KD.

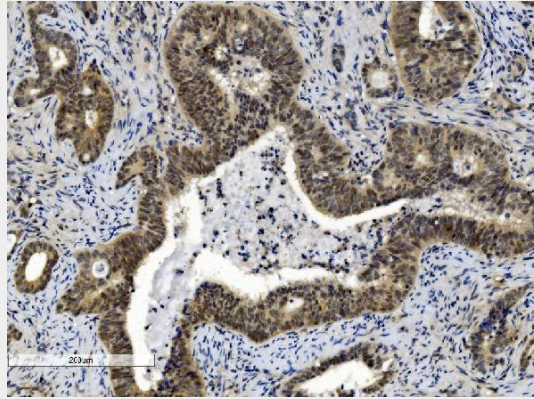


Figure 2. IHC analysis of Cbx8 using anti-Cbx8 antibody (M05234). Cbx8 was detected in paraffin-embedded section of human gallbladder adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 µg/ml mouse anti-Cbx8 Antibody (M05234) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

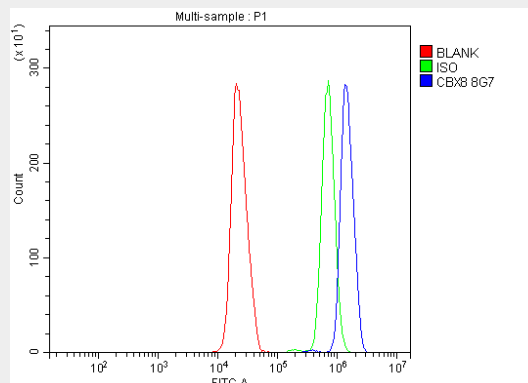


Figure 3. Flow Cytometry analysis of HL-60 cells using anti-Cbx8 antibody (M05234). Overlay histogram showing HL-60 cells stained with M05234 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Cbx8 Antibody (M05234, 1 µg/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10 µg/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1 µg/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

### Anti-Cbx8 Antibody Picoband™ (monoclonal, 8G7) - Background

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).