

## Product datasheet

### Anti-cbx7 antibody [EPR12630] ab178411

Recombinant RabMAb

3 Images

#### Overview

Product name	Anti-cbx7 antibody [EPR12630]
Description	Rabbit monoclonal [EPR12630] to cbx7
Host species	Rabbit
Tested applications	<b>Suitable for:</b> Flow Cyt (Intra), WB <b>Unsuitable for:</b> ICC/IF, IHC-P or IP
Species reactivity	<b>Reacts with:</b> Human <b>Does not react with:</b> Mouse, Rat
Immunogen	Synthetic peptide within Human cbx7 aa 50-150 (Cysteine residue). The exact sequence is proprietary. Database link: <a href="#">O95931</a>
Positive control	HepG2, HeLa and SW480 cell lysates; HeLa cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR12630
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab178411 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>Flow Cyt (Intra)</b>		1/10 - 1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
<b>WB</b>		1/1000 - 1/5000. Detects a band of approximately 28 kDa (predicted molecular weight: 28 kDa).

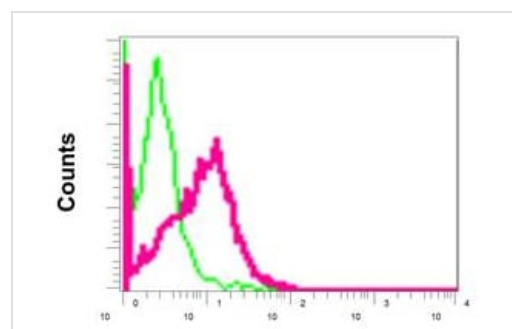
**Application notes** Is unsuitable for ICC/IF, IHC-P or IP.

## Target

**Relevance** Control of cell proliferation by Polycomb group proteins (PcG) is an important facet of cellular homeostasis and its disruption can promote tumorigenesis. CBX7 is a novel PcG protein which is found to control the growth of normal cells. CBX7 is a gene that encodes a Polycomb protein, as shown by sequence homology, its interaction with Ring1 and its localization to nuclear Polycomb bodies. CBX7 extends the lifespan of a wide range of normal human cells and immortalizes mouse fibroblasts by downregulating expression of the Ink4a/Arf locus. CBX7 does not inter-function or colocalize with Bmi1, and both can exert their actions independently of each other as shown by reverse genetics. CBX7 was highly expressed in three different prostate cancer cell lines and present at elevated levels in normal prostate. (Gil et al., 2004).

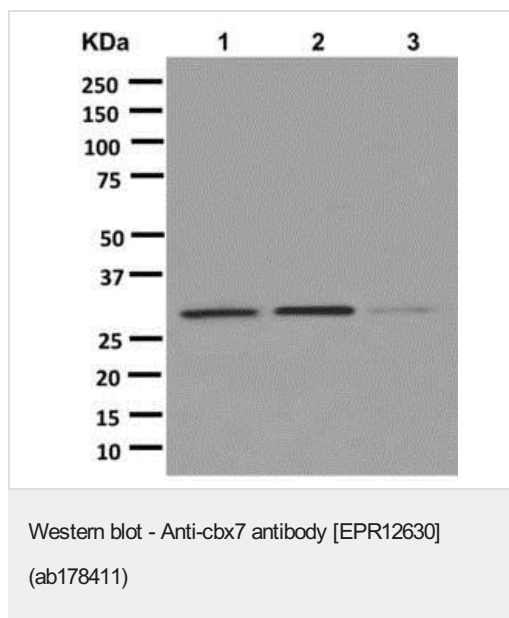
**Cellular localization** Nuclear

## Images



Intracellular flow cytometrical analysis of permeabilized HeLa cells labeling cbx7 with ab178411 at 1/10 (red) compared to a nonspecific negative control antibody (green).

Flow Cytometry (Intracellular) - Anti-cbx7 antibody  
[EPR12630] (ab178411)



**All lanes** : Anti-cbx7 antibody [EPR12630] (ab178411) at 1/1000 dilution

**Lane 1** : HepG2 cell lysate

**Lane 2** : HeLa cell lysate

**Lane 3** : SW480 cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes** : HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 28 kDa

**Additional bands at:** 28 kDa. We are unsure as to the identity of these extra bands.

Why choose a recombinant antibody?

**Research with confidence**  
Consistent and reproducible results

**Long-term and scalable supply**  
Recombinant technology

**Success from the first experiment**  
Confirmed specificity

**Ethical standards compliant**  
Animal-free production

Anti-cbx7 antibody [EPR12630] (ab178411)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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