


Product datasheet

Anti-cbx7 antibody ab31765

2 References 2 Images

Overview

Product name	Anti-cbx7 antibody
Description	Rabbit polyclonal to cbx7
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Cow, Chimpanzee 
Immunogen	Synthetic peptide derived from within residues 150 - 250 of Human cbx7. Read Abcam's proprietary immunogen policy (Peptide available as ab22423 .)
Positive control	This antibody gave a positive signal in MEF1 whole cell lysate and HeLa nuclear extract.

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab31765** 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
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 30 kDa (predicted molecular weight: 28 kDa).

Target

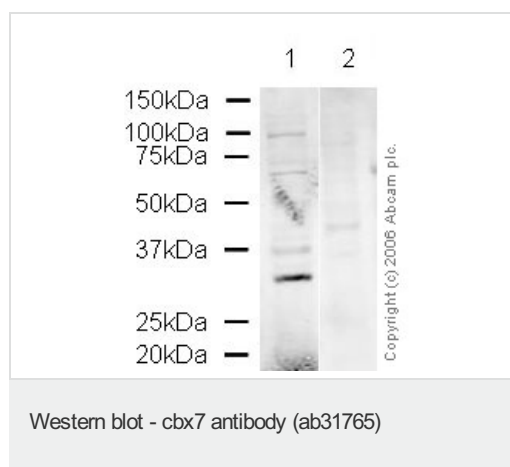
Relevance

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



All lanes : Anti-cbx7 antibody (ab31765) at 1 $\mu\text{g/ml}$

Lane 1 : HeLa nuclear Lysate

Lane 2 : HeLa nuclear Lysate with Human cbx7 peptide ([ab22423](#)) at 1 $\mu\text{g/ml}$

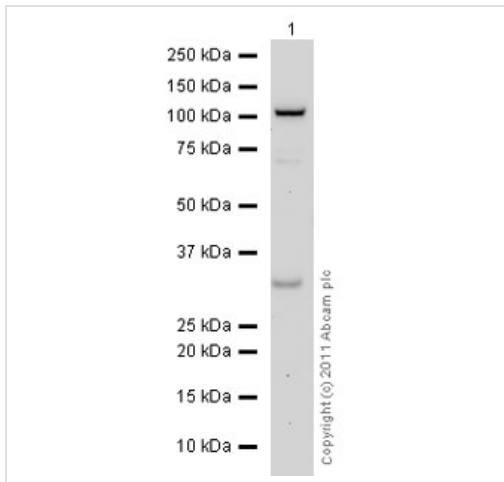
Lysates/proteins at 20 μg per lane.

Secondary

Secondary ab: Alexa Fluor Goat polyclonal to Rabbit IgG (700)

Predicted band size : 28 kDa

Observed band size : 35 kDa



Western blot - Anti-cbx7 antibody (ab31765)

Anti-cbx7 antibody (ab31765) at 1 µg/ml +
MEF1 (Mouse embryonic fibroblast cell line)
Whole Cell Lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed
(ab97080) at 1/5000 dilution

Developed using the ECL technique

Performed under reducing conditions.

Predicted band size : 28 kDa

Observed band size : 28 kDa

Additional bands at : 100 kDa. We are unsure as to the identity of these extra bands.

Exposure time : 20 minutes

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