PRODUCT INFORMATION

Product name: CBX8 antibody

Product type: Primary antibodies

Description: Rabbit polyclonal to CBX8

Immunogen: 3 synthetic peptides (human) conjugated to KLH

Reacts with: Hu, Ms

Tested applications: ELISA, WB and IF

GENE INFORMATION

Gene Symbol: CBX8

Gene Name: chromobox homolog 8
Ensembl ID: ENSG00000141570

Entrez GeneID: 57332

GenBank Accession number: AF174482

Swiss-Prot: Q9HC52

Molecular weight of CBX8: 43.4 kDa

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.

Expected subcellular localization: Nucleus.

APPLICATION NOTE

Recommended dilution:

- ELISA: Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A minimum titer of 1/4000 has been determined. Appropriate specificity controls were run.
- WB (recombinant protein): 1/2500.
- WB (cell lysate): 1/125.
- IF: 1/2500.

Optimal dilutions/concentration should be determined by the end user.

Raised in: Rabbit

Clonality: Polyclonal

Isotype: IgG

Purity: Purified Antibody

Storage buffer: 0.5 X PBS, containing a final concentration of 50% glycerol, 0.1% BSA and

0.01% Thimerosal.

Form: Liquid

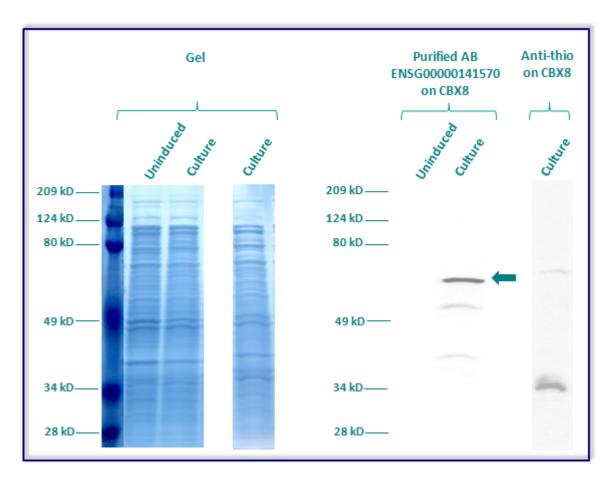
Storage instruction: Store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

The purified antibody ENSG00000141570 has been tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells).

An anti-thio (positive control) has been tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells) as a positive control.

Plasmid name: pBAD-DEST49.

Molecular weight of CBX8: 57.4kDa (43.4kDa + another 14kDa for the tag).



Gel concentration: 10%

Blocking: in 5% non-fat milk-PBST solution

1st Antibody: The antibodies are diluted in blocking buffer.

- Dilute the purified antibody ENSG00000141570 at 1:2500
- Dilute the anti-thio at 1:5000

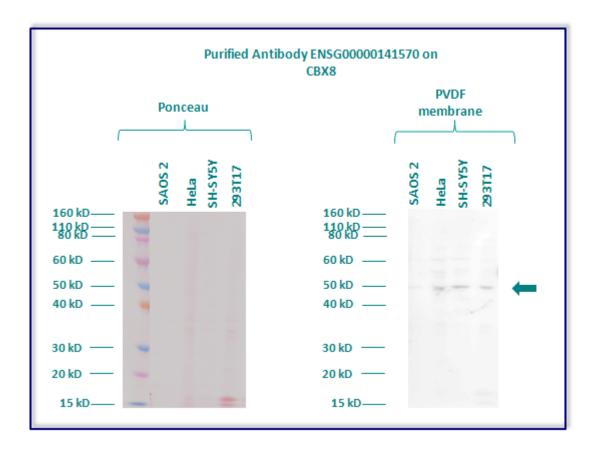
60 minutes of incubation

2nd Antibody: The antibody is diluted in blocking buffer.

- Dilute the anti-Rabbit IgG HRP conjugated at 1/10000
- 60 minutes of incubation

The purified antibody ENSG00000141570 has been tested at a concentration of 1/250 on total protein extract of various cell lines (SAOS 2, HeLa, SH-SY5Y & 293T17).

Molecular weight of CBX8: 43.4kDa



Gel concentration: 10%

Blocking: in 5% non-fat milk-PBST solution

1st Antibody: The antibodies are diluted in blocking buffer.

• Dilute the purified antibody ENSG00000141570 at 1:125 60 minutes of incubation

2nd Antibody: The antibody is diluted in blocking buffer.

• Dilute the anti-Rabbit IgG HRP conjugated at 1/10000 60 minutes of incubation

IMMUNOFLUORESCENCE ANALYSIS

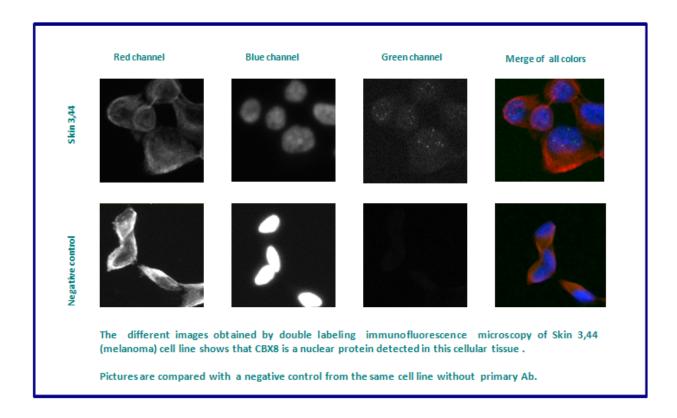
Immunofluorescence analysis of Chromobox protein homolog 8 (CBX8) expression in 3 cells lines (SAOS-2, SH-SY5Y, Skin 3,44). The purified Antibody ENSG00000141570 has been tested at 1/5000.

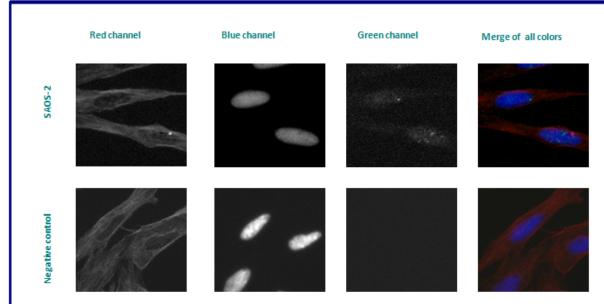
Red staining : cytoskeleton (microtubules/ α -tubuline)

Blue staining: nucleus (Hoechst)

Green staining: anti-CBX8 antibody (purified)

Expected subcellular location: Nucleus





The different images obtained by double labeling immunofluorescence microscopy of SAOS-2 (osteosarcoma) cell line shows that CBX8 is a nuclear protein detected in this cellular tissue .

Pictures are compared with a negative control from the same cell line without primary Ab.

Remaining cell lines tested gave a positive result with a nuclear distribution.