

CBX4 polyclonal antibody

Catalog # PAB10228 Size 100 ug

Applications

Western Blot (Transfected lysate)

Western blotting analysis shows the detection of human CBX4 in probed lysates using CBX4 polyclonal antibody (Cat # PAB10228).

The panel on the left shows the blot probed with CBX4 polyclonal antibody. The panel on the right is the same blot reprobed with anti-FLAG antibody to confirm the presence of FLAG tagged recombinant CBX4 in the lysate.

In the left panel the band labeled as CBX4 is FLAG-tagged transfected CBX4 in 293T cells.

The bands labeled with stars are likely endogenous CBX4.

In the right panel the band labeled CBX4 is FLAG-tagged transfected CBX4 in 293T cells.

Data contributed by Dr. Ari Melnick, Albert Einstein College of Medicine.

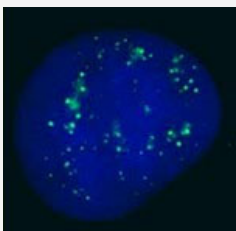
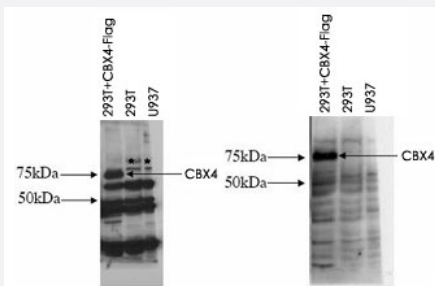
Immunofluorescence

Immunofluorescence microscopy of CBX4 polyclonal antibody (Cat # PAB10228) was used for immunofluorescent imaging of U-2 OS.

The image reveals the expected discrete nuclear structure that is termed the PcG body corresponding to the known localization of CBX4 (see Satijn et al. below) .

Primary antibody used at 1 : 200.

Data contributed by Luke Hughes-Davies and Rhiannon Jade, Gurdon Institute, Cambridge, UK.



Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CBX4.
Immunogen	A synthetic peptide corresponding to amino acids 95-107 of human CBX4.
Host	Rabbit

Reactivity	Human, Mouse
Specificity	Reactivity occurs against human PC2 protein.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:10000-1:40000) Western Blot (1:1000-1:4000) Immunofluorescence (1:100-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

Western blotting analysis shows the detection of human CBX4 in probed lysates using CBX4 polyclonal antibody (Cat # PAB10228).

The panel on the left shows the blot probed with CBX4 polyclonal antibody.

The panel on the right is the same blot reprobed with anti-FLAG antibody to confirm the presence of FLAG tagged recombinant CBX4 in the lysate.

In the left panel the band labeled as CBX4 is FLAG-tagged transfected CBX4 in 293T cells.

The bands labeled with stars are likely endogenous CBX4.

In the right panel the band labeled CBX4 is FLAG-tagged transfected CBX4 in 293T cells.

Data contributed by Dr. Ari Melnick, Albert Einstein College of Medicine.

- Immunofluorescence

Immunofluorescence microscopy of CBX4 polyclonal antibody (Cat # PAB10228) was used for immunofluorescent imaging of U-2 OS.

The image reveals the expected discrete nuclear structure that is termed the PcG body corresponding to the known localization of CBX4 (see Satijn et al. below) .

Primary antibody used at 1 : 200.

Data contributed by Luke Hughes-Davies and Rhiannon Jade, Gurdon Institute, Cambridge, UK.

- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — CBX4

Entrez GeneID	8535
Protein Accession#	GC17M081095(Human);LocusLink8535(Human);Omim603079(Human);SwissProtO00257(Human);Unigene5637(Human)
Gene Name	CBX4
Gene Alias	NBP16, PC2, hPC2
Gene Description	chromobox homolog 4 (Pc class homolog, Drosophila)
Omim ID	603079
Gene Ontology	Hyperlink
Gene Summary	O
Other Designations	NS5ATP1-binding protein 16 chromobox homolog 4

Publication Reference

- [The polycomb protein Pc2 is a SUMO E3.](#)

Kagey MH, Melhuish TA, Wotton D.

Cell 2003 Apr; 113(1):127.

- [Interference with the expression of a novel human polycomb protein, hPc2, results in cellular transformation and apoptosis.](#)

Satijn DP, Olson DJ, van der Vlag J, Hamer KM, Lambrechts C, Masselink H, Gunster MJ, Sewalt RG, van Driel R, Otte AP.

Molecular and Cellular Biology 1997 Oct; 17(10):6076.

Application: IF, WB-Ce, WB-Tr, Human, U2OS, C57MG cells

- [RING1 is associated with the polycomb group protein complex and acts as a transcriptional repressor.](#)

Satijn DP, Gunster MJ, van der Vlag J, Hamer KM, Schul W, Alkema MJ, Saurin AJ, Freemont PS, van Driel R, Otte AP.

Molecular and Cellular Biology 1997 Jul; 17(7):4105.

Application: IF, IP, WB-Ce, Human, Saos-2, SW480 cells