

Datasheet: AHP1086

Description:	GOAT ANTI CBX3
Specificity:	CBX3
Other names:	HP1 GAMMA HOMOLOGUE
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/32000
Immunoprecipitation			▪	
Western Blotting	▪			0.3 - 1.0ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Based on sequence similarity, is expected to react with:Rat, Dog, Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to human CBX3 were raised by repeated immunisations of goats with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	TRIS buffered saline
Preservative	0.02% Sodium Azide
Stabilisers	0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Peptide sequence C-EAFLNSQKAGKEKD corresponding to the C-terminus of CBX (NP_009207.2; NP_057671.2).

**External Database
Links**

UniProt:

[Q13185](#) [Related reagents](#)

Entrez Gene:

[11335](#) CBX3 [Related reagents](#)

Specificity

Goat anti Human CBX3 antibody recognizes human chromobox homolog 3 (CBX3), a ~20 kDa protein. It binds histone H3 tails methylated at lysine 9, repressing transcription. CBX3 also interacts with lamin B receptor, forming a functional kinetochore through interaction with MIS12 complex proteins. This dual binding may contribute to the association of heterochromatin with the inner nuclear membrane.

Western Blotting

AHP1086 detects a band of approximately 20kDa in A431, HeLa and HepG2 cell lysates. A minimum incubation time of 1 hour is recommended with this antibody.

Further Reading

1. Ye, Q. & Worman, H.J. (1996) Interaction between an integral protein of the nuclear envelope inner membrane and human chromodomain proteins homologous to Drosophila HP1. [J Biol Chem. 271 \(25\): 14653-6.](#)

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10058 available at:
10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

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