

Anti-CBX3 Recombinant Mouse Monoclonal Antibody

Publication Part no. MAN0006763

Rev. 1.00

Catalog Number: 730018

Store at 2° to 8°C (short-term), or -20°C (long-term)

Clonality: Monoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Mouse IgG
Reactivity: Human CBX3
Predicted Reactivity: Human

Product Description

CBX3 (Chromobox homolog 3) is encoded by the *cbx3* gene located on chromosome 7. The protein is ubiquitously expressed and localized in the nucleus, and is an important component of the heterochromatin. It has dual binding domains that allows it to bind heterochromatin to the inner nuclear membrane through the lamin B receptor. The protein also mediates chromatin remodeling and DNA dependent negative regulation of transcription by binding to methylated lysine residues in histone tails. CBX3 is also known to play a role in DNA damage repair caused by UV radiation or double strand breaks.

This antibody was developed against a fully folded protein domain, so it does not show good reactivity against denatured proteins, and may not work in western blot applications.

Product Specifications

Immunogen: Folded protein domain corresponding to amino acids 29–86 Chromodomain of human CBX3
Alternate Names: HECH, HP1 (Heterochromatin protein 1 homolog gamma)
Apparent MW: ~20.8 kDa
Gene ID: 11335
Protein Accession No.: Q13185
Sequence Identity: Human
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Immunoprecipitation	Human	HEK293 cells	2 mg per IP

Storage and Handling

Store the antibody at 2 to 8°C for up to 1 month, -20°C for long storage. Avoid repeated freezing and thawing.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

Caution: Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

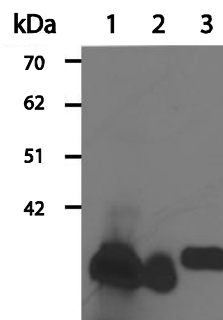


Figure 2 Immunoprecipitation analysis of Anti-CBX3 Recombinant Mouse Monoclonal Antibody (Cat. no. 730018).

Immunoprecipitation analysis was performed on HEK293 cells overexpressing flag tagged CBX3 protein. Western blot using anti-flag antibody was performed on the raw lysate (lane 1), and samples immunoprecipitated with Anti-CBX3 Recombinant Mouse Monoclonal Antibody (lane 2 and 3).

For research use only. Not for human or animal therapeutic or diagnostic use.

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




Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit www.lifetechnologies.com/support.

Related Products

Product Name	Quantity	Catalog no.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		<i>In vitro</i> diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

Limited Product Warranty

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