PRODUCT INFORMATION

CBX2 chromodomain (human recombinant)

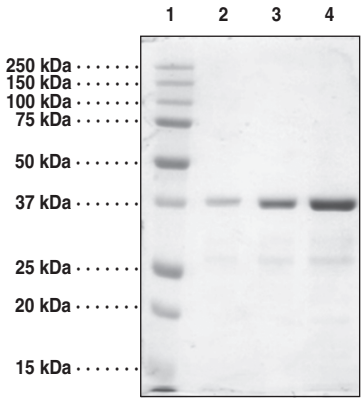
Item No. 14769

Overview and Properties

Synonyms:	CDCA6, Cell Division Cycle Associated 6, Chromobox Protein Homolog 2 (*Drosophila* Pc Class), M33, MGC10561, Modifier 3, SRXY5
Source:	Recombinant N-terminal GST-tagged protein expressed in *E. coli*
Amino Acids:	2-90
Molecular Weight:	38.2 kDa
Storage:	-80°C (as supplied)
Stability:	≥6 months
Purity:	≥90% estimated by SDS-PAGE
Supplied in:	50 mM TRIS, pH 8.0, containing 150 mM sodium chloride and 20% glycerol
Protein Concentration:	***batch specific*** mg/ml

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Image



Lane 1: MW Markers
Lane 2: CBX2 (2 µg)
Lane 3: CBX2 (4 µg)
Lane 4: CBX2 (8 µg)

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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Description

CBX2 is a component of the polycomb repressive complex 1 and represses protein expression.[1] The chromodomain regions of CBX2 recognizes histone H3 trimethyl lysine 9 (H3K9me3) or trimethyl lysine 27 (H3K27me3).[2-4] CBX2 knock-out mice have impaired spleen formation, T cell expansion, and inactivation of the X chromosome, which can be lethal in some cases.[5] This protein product contains the chromodomain region of CBX2.

References

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3. Bernstein, E., Duncan, E.M., Masui, O., *et al.* Mouse polycomb proteins bind differentially to methylated histone H3 and RNA and are enriched in facultative heterochromatin. *Mol. Cell Biol.* **26(7)**, 2560-2569 (2006).
4. Kaustov, L., Ouyang, H., Amaya, M., *et al.* Recognition and specificity determinants of the human Cbx chromodomains. *J. Biol. Chem.* **286(1)**, 521-529 (2011).
5. Katoh-Fukui, Y., Owaki, A., Toyama, Y., *et al.* Mouse polycomb M33 is required for splenic vascular and adrenal gland formation through regulating Ad4BP/SF1 expression. *Blood 106(5)*, 1612-1620 (2005).

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