abcam

Product datasheet

Anti-CBX4 antibody ab200942

Overview

Product name	Anti-CBX4 antibody
Description	Mouse monoclonal to CBX4
Host species	Mouse
Specificity	ab200942 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.
Tested applications	**Suitable for:** MS, IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse
Immunogen	Recombinant fragment corresponding to Human CBX4 aa 8-65. Sequence: EHV FAVESIEKKR IRKGRVEYLV KWRGWSPKYN TWEPEENILD PRLLIAFQNR ERQEQ Database link: O00257 Run BLAST with Run BLAST with
Positive control	HEK293 cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: 99% PBS
Clonality	Monoclonal
Isotype	IgG1

Applications

Our Abpromise guarantee covers the use of **ab200942** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
MS		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration. 2 µg per IP

Target

Function	E3 SUMO-protein ligase which facilitates SUMO1 conjugation by UBE2I. Component of the Polycomb group (PcG) multiprotein PRC1 complex, a complex 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.
Tissue specificity	Ubiquitous.
Pathway	Protein modification; protein sumoylation.
Sequence similarities	Contains 1 chromo domain.
Post-translational modifications	Phosphorylated on Thr-497 by HIPK2 upon DNA damage; which enhances E3 SUMO-protein ligase activity and promotes sumoylation on Lys-494.
Cellular localization	Nucleus.

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