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CBX4 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2074a

Specification

CBX4 Antibody - Product Information

Application	**WB, IHC, FC, E**
Primary Accession	O00257
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**61.4kDa KDa**

Description
CBX4 (chromobox homolog 4) is a protein-coding gene. Diseases associated with CBX4 include brain cancer. GO annotations related to this gene include chromatin binding and transcription corepressor activity. An important paralog of this gene is CBX8.

Immunogen
Purified recombinant fragment of human CBX4 (AA: 397-514) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

CBX4 Antibody - Additional Information

Gene ID 8535

Other Names
E3 SUMO-protein ligase CBX4, 6.3.2.-, Chromobox protein homolog 4, Polycomb 2 homolog, Pc2, hPc2, CBX4

Dilution
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
FC~~1/200 - 1/400
E~~1/10000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CBX4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CBX4 Antibody - Protein Information

Name CBX4

Function
E3 SUMO-protein ligase that catalyzes sumoylation of target proteins by promoting the transfer of SUMO from the E2 enzyme to the substrate (PubMed:12679040, PubMed:22825850). Involved in the sumoylation of HNRNPK, a p53/TP53 transcriptional coactivator, hence indirectly regulates p53/TP53 transcriptional activation resulting in p21/CDKN1A expression. Monosumoylates ZNF131 (PubMed:22825850).

Cellular Location
Nucleus. Nucleus speckle. Note=Localization to nuclear polycomb bodies is required for ZNF131 sumoylation (PubMed:22467880). Localized in distinct foci on chromatin (PubMed:18927235)

Tissue Location
Ubiquitous.

CBX4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture