

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Cbx2 in ELISA.
Source	Monoclonal Mouse IgG ₁ Clone # 880833
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Cbx2 Lys131-His217 Accession # Q14781
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Chromobox homolog 2 (Cbx2), also known as CDCA6 and M33, is an approximately 56 kDa protein component of the nuclear polycomb repressive complex 1 (PRC1). PRC1 regulates chromatin organization and gene transcription. Cbx2 interacts with methylated histone H3, and this is regulated by phosphorylation of Ser42 within the Cbx2 chromodomain. Cbx2 is required for male sex determination by activating expression of the Sry gene. It is also important for germ cell viability and meiotic chromosome synapsis. Within amino acids 131-217, human Cbx2 shares 94% and 92% aa sequence identity with mouse and rat Cbx2, respectively. Alternative splicing generates an additional isoform that is substituted and truncated following Lys96.

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