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11-12012: Polyclonal Antibody to Cbx5

Clonality :	Polyclonal
Application :	WB
Reactivity :	Human
Gene :	CBX5
Gene ID :	23468
Uniprot ID :	P45973
Format :	Purified
Alternative Name :	CBX5,HP1A
Isotype :	Rabbit IgG
Immunogen Information :	Full length recombinant Cbx5 protein was used as the immunogen for this antibody.

Description

Chromobox homolog 5 (Cbx5), lso known as HP1 is an evolutionarily conserved non-histone chromosomal protein involved in many biological progresses, such as heterochromatin formation, transcriptional regulation, DNA recombination and damage repair, RNA interference, kinetochore protein assembly, chromatin condensation and sister chromatid cohesion regulation. It binds lysine 9-methylated histone H3 (H3K9me), a hallmark of heterochromatin, and plays a crucial role in forming higher-order chromatin structures.Cbx5 has a conserved N-terminal chromo domain (CD), 3 a non-conserved hinge region, and a C-terminal chromo shadow domain. It localizes to centromeres in interphase through its CD domain, whereas mitotic centromeric localization depends on the CSD domain (CSD). Down regulation of Cbx5 has also been linked to the higher invasive potential of breast cancer cells.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein A Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blot analysis: 1-2 µg/ml

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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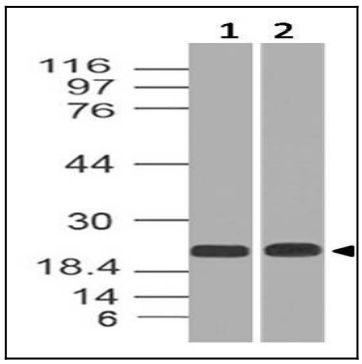

Fig-1: Expression analysis of Cbx5. Anti-Cbx5 antibody (11-12012) was used at 1 µg/ml on (1) MCF-7 and (2) Hela lysates.

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