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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 CBX5.HP1A **Alternative Name:** Rabbit IgG Isotype:

**Immunogen Information:** Full length recombinant Cbx5 protein was used as the immunogen for this antibody.

## **Description**

Chromobox homolog 5 (Cbx5), Iso 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 :**  $25 \mu g / 100 \mu g$ 

**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



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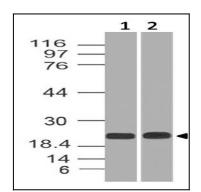


Fig-1: Expression analysis of Cbx5. Anti-Cbx5 antibody (11-12012) was used at 1  $\mu g/ml$  on (1) MCF-7 and (2) Hela lysates.