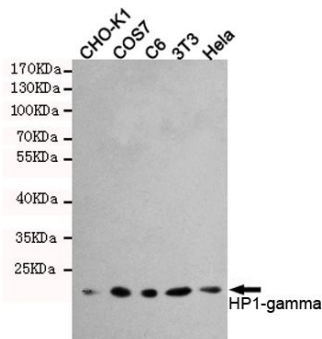


HP1 γ

Mouse monoclonal Antibody

#53176

Catalog Number: 53176**Amount:** 100 μ g/100 μ l**Swiss-Prot No. :** Q13185**Gene name:** cbx3**Gene id:** 11335**Clone Number:** 5G10-F7-A12**Form of Antibody:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Storage/Stability:** Store at -20°C/1 year**Immunogen:** Purified recombinant human HP1 γ protein fragments expressed in E.coli.**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of HP1 γ and does not cross-react with related proteins**Reactivity:** Human, Mouse, Monkey, Hamster, Rat**Applications:** Predicted MW: 22 kd WB: 1:1000 IHC/ICC1:200

Western blot detection of HP1-gamma in HeLa, 3T3, C6, COS7 and CHO-K1 cell lysates using HP1-gamma mouse mAb (1:1000 diluted). Predicted band size: 22KDa. Observed band size: 22KDa.

Background :

At the nuclear envelope, the nuclear lamina and heterochromatin are adjacent to the inner nuclear membrane. The protein encoded by this gene binds DNA and is a component of heterochromatin. This protein also can bind lamin B receptor, an integral membrane protein found in the inner nuclear membrane. The dual binding functions of the encoded protein may explain the association of heterochromatin with the inner nuclear membrane. This protein binds histone H3 tails methylated at Lys-9 sites. This protein is also recruited to sites of ultraviolet-induced DNA damage and double-strand breaks. Two transcript variants encoding the same protein but differing in the 5' UTR, have been found for this gene.