

Goat anti-CBX3 / HP1 Gamma Antibody

Item Number	dAP-0722
Target Molecule	Principle Name: CBX3 / HP1 Gamma; Official Symbol: CBX3; All Names and Symbols: CBX3; HP1-GAMMA; chromobox homolog 3 (HP1 gamma homolog, Drosophila) ; HGNC:1553; HECH; HP1Hs-gamma ; HP1 gamma homolog; chromobox homolog 3; chromobox homolog 3 (Drosophila HP1 gamma); heterochromatin protein HP1 gamma; heterochromatin-like protein 1; Accession Number (s): NP_009207.2; Human Gene ID(s): 11335; Non-Human GeneID(s): 12417 (mouse) 297093 (rat)
Immunogen	EAFLNSQKAGKEKD, is from internal region No cross-reactivity expected with HP1-alpha and HP1-beta. Reported variants represent identical protein: NP_009207.2, NP_057671.2
Applications	Pep ELISA, WB, IHC Species Tested: Human, Mouse
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied As	lyophilized powder of 50ug or 100ug IgG; Reconstitute IgG with 100ul or 200ul sterile DI Water and final product will be formulated as 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Peptide ELISA	Peptide ELISA: antibody detection limit dilution 1 to 32000.
Western Blot	Western Blot: Approx. 20kDa band observed in lysates of cell lines A431, HeLa, HepG2, NIH3T3 and NSO (calculated MW of 20.8kDa according to NP_009207.2 and NP_057671.2). Recommended concentration: 0.3-1.0 µg/ml.
IHC	Immunohistochemistry: In paraffin embedded Human Placenta shows strong nuclear staining in trophoblasts. Recommended concentration, 2-3µg/ml.
Reference	Reference(s): Vakoc CR, Mandat SA, Olenchock BA, Blobel GA. Histone H3 Lysine 9 Methylation and HP1gamma Are Associated with Transcription Elongation through Mammalian Chromatin. Mol Cell. 2005 Aug 5;19(3):381-391. .PMID: 16061184 ->

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**