Rabbit HP1gamma Polyclonal Antibody | anti-HP1gamma antibody

HP1gamma Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322541	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

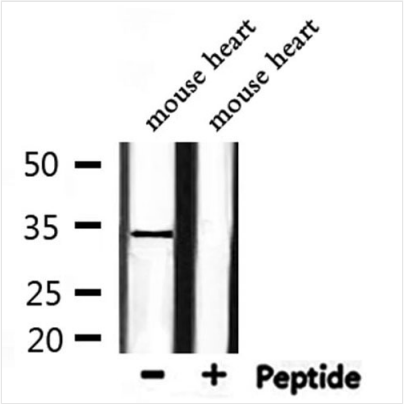
PRODUCT SYNONYMS

HP1gamma; Polyclonal Antibody; HP1gamma Antibody; CBX 3; CBX3; CBX3_HUMAN; Chromobox homolog 3 (HP1 gamma homolog; Drosophila); Chromobox homolog 3; Chromobox protein homolog 3; GAMMA; HECH; Heterochromatin like protein 1; Heterochromatin protein 1 homolog gamma; Heterochromatin protein HP1 gamma; HP1 gamma; HP1 gamma homolog; HP1Hs gamma; Modifier 2 protein; anti-HP1gamma antibody

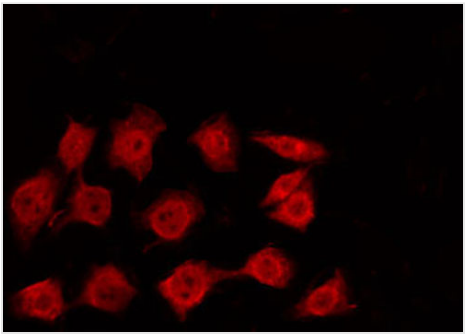
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	HP1gamma antibody detects endogenous levels of total HP1gamma
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	183
Applicable Applications for anti-HP1gamma antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human HP1gamma
Subcellular Location	Nucleus. Associates with euchromatin and is largely excluded from constitutive heterochromatin. May be associated with microtubules and mitotic poles during mitosis.
Predicted Cross Reactivity	**Pig, Bovine, Horse, Rabbit, Dog, Chicken, Xenopus**
Similarity	Pig (100%), Bovine (100%), Horse (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

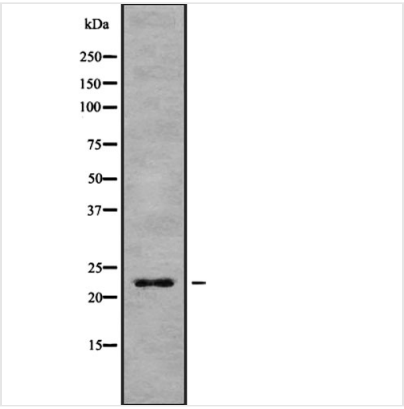
IMAGES



WB (Western Blot)
Western blot analysis of extracts from mouse heart, using HP1gamma Antibody.



IF (Immunofluorescence)
AAA322541 staining K562 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of HP1gamma using 293 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-HP1gamma antibody	Function: Seems to be involved in transcriptional silencing in heterochromatin-like complexes. Recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression. May contribute to the association of the heterochromatin with the inner nuclear membrane through its interaction with lamin B receptor (LBR). Involved in the formation of functional kinetochore through interaction with MIS12 complex proteins. Contributes to the conversion of local chromatin to a heterochromatin-like repressive state through H3 'Lys-9' trimethylation, mediates the recruitment of the methyltransferases SUV39H1 and/or SUV39H2 by the PER complex to the E-box elements of the circadian target genes such as PER2 itself or PER1. Mediates the recruitement of NIPBL to sites of DNA damage at double-strand breaks (DSBs) (PubMed:28167679). Subunit Structure: Binds directly to CHAF1A. Interacts with histone H3 methylated at 'Lys-9'. Part of the E2F6.com-1 complex in G0 phase composed of E2F6, MGA, MAX, TFDP1, CBX3, BAT8, EUHMTASE1, RING1, RNF2, MBLR, L3MBTL2 and YAF2. Interacts with LBR, INCENP, TRIM28/TIF1B, KMT5B, KMT5C and SP100. Interacts with TIF1A. Interacts with MIS12 and DSN1. Can interact directly with CBX5 via the chromoshadow domain. Interacts with POGZ. Interacts with CHAMP1. Interacts with ASXL1. The large PER complex involved in the histone methylation is composed of at least PER2, CBX3, TRIM28, SUV39H1 and/or SUV39H2; CBX3 mediates the formation of the complex. Interacts with INCENP. Interacts with NIPBL (via PxVxL motif) (PubMed:28167679). Post-translational Modifications: Phosphorylated by PIM1. Phosphorylated during interphase and possibly hyper-phosphorylated during mitosis.

NCBI AND UNIPROT INFORMATION

NCBI GI #	15082258
NCBI GeneID	11335

NCBI Accession #	NP_009207.2
NCBI GenBank Nucleotide #	NM_007276.4
UniProt Accession #	Q13185; Q96CD7; Q99409; Q9BVS3; Q9P0Z6
Molecular Weight	Observed: 22 kDa Predicted: 21 kDa
NCBI Official Full Name	chromobox protein homolog 3
NCBI Official Synonym Full Names	chromobox 3
NCBI Official Symbol	CBX3
NCBI Official Synonym Symbols	HECH; HP1-GAMMA; HP1Hs-gamma
NCBI Protein Information	chromobox protein homolog 3
UniProt Protein Name	Chromobox protein homolog 3
UniProt Gene Name	**CBX3**
UniProt Synonym Gene Names	HP1 gamma

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://www.aaabiotech.com/polyclonal/hp1gamma-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/322541