| at - | HP1y Antibody | | | | |
|--------------|---------------|----------|--|--|--|
| Store | | Orders: | 877-616-CELL (2355) orders@cellsignal.com | | |
| 0 | | Support: | 877-678-TECH (8324) | | |
| #2619 | | Web: | info@cellsignal.com cellsignal.com | | |

3 Trask Lane | Danvers | Massachusetts | 01923 | USA For Research Use Only. Not for Use in Diagnostic Procedures.

| | | nsitivity: dogenous | MW (kDa): 22 | Source: Rabbit | UniProt ID: #Q13185 | Entrez-Gene Id: 11335 | | |
|--------------------------|---|---|---|---|--|--|--|--|
| Product Usage | Applicatio | on | | | | Dilution | | |
| Information | Western E | Blotting | | | | 1:1000 | | |
| | Immunopr | recipitation | | | | 1:50 | | |
| | Immunoflu | uorescence (I | mmunocytochemis | try) | | 1:100 | | |
| | Flow Cyto | metry (Fixed/ | (Permeabilized) | | | 1:50 | | |
| Storage | •• | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. S 20°C. Do not aliquot the antibody. | | | | | | |
| Specificity / Sensitivit | | HP1y Antibody detects endogenous levels of total HP1gamma protein. The antibody does not cross-react HP1alpha or HP1beta proteins. | | | | | | |
| Source / Purification | amino term | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of human HP1gamma. Antibodies are purified by protein A and peptide affinity chromatography. | | | | | | |
| Background | silencing au associated the genome chromodon domain. Th closely ass DNA in a se HP1 protein formation, i methyltrans contributing with retinob transcriptio modification | nd higher ord with centrom e (2,3). HP1 p nain, followed be chromodon cociated with o equence-inde ns, in additior including the sferases, and g to heterochi blastoma (Rb) in in quiescen ns, including | er chromatin struct peric heterochromat proteins are approx d by a variable hing main facilitates bind centromeric heteroo ependent manner (6 n to binding multiple SUV39H histone m the p150 subunit o romatin formation a) and E2F6 proteins at cells (10,11). HP2 | ure (1). All three HF tin; however, HP1β imately 25 kDa in s e region and a cons ling to histone H3 tr chromatin (4,5). The chromatin (4,5). The proteins implicated bethyltransferase, th of chromatin-assem and propagation, HF s, both of which fun 1 proteins are subje cetylation, methylat | c adaptor molecules inv P1 family members (α , β and y also localize to er ize and contain a conse served carboxy-terminal i-methylated at Lys9, a e variable hinge region I dow domain mediates th d in gene silencing and the DNMT1 and DNMT38 bly factor-1 (CAF1) (7-9 P1 and SUV39H are also ction to repress euchron sect to multiple types of p ion, ubiquitination, and s | B, and y) are primarily uchromatic sites in erved amino-terminal I chromoshadow histone "mark" binds both RNA and the dimerization of heterochromatin a DNA D). In addition to to found complexed matic gene ost-translational | | |
| Background Referenc | Minc, E. Nielsen, Lachner, Banniste Muchard Yamamo Fuks, F. Murzina, Nielsen, Ogawa, Minc, E. Zhao, T. | et al. (2000) A.L. et al. (200 M. et al. (200 er, A.J. et al. (200 to, K. and So et al. (2003) N. et al. (199 S.J. et al. (200 H. et al. (2000) et al. (1999) et al. (2001) | Cytogenet. Cell Ge 001) Mol. Cell 7, 72 01) Nature 410, 110 2001) Nature 410, 002) EMBO Rep. 3 | 9-739. 6-120. 120-124. , 975-981. <i>iochem. Biophys. R</i> 31, 2305-2312. I-540. 51-565. 32-1136. 220-234. 9512-9518. | . 5, 296-304. es. Commun. 301, 287- | 292. | | |

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

| 1/1/24, 6:52 AM Western Blot Buffer | HP1γ Antibody (#2619) Datasheet Without Images Cell Signaling Technology IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. |
|--|--|
| Applications Key | WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) |
| Cross-Reactivity Key | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected |
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