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e at -20C	MacroH2A1.2 Antibody		Cell Signaling TECHNOLOGY®	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: React WB, IF-IC H M I		MW (kDa): 40	Source: Rabbit	UniProt ID: #O75367-1	Entrez-Gene Id: 9555
Product Usage Information	Application Western Blotting Immunofluorescence (Immunocytochemis	try)		Dilution 1:1000 1:200
Storage	Supplied in 10 mM sodi 20°C. Do not aliquot the		i), 150 mM NaCl, 10	0 μg/ml BSA and 50%	glycerol. Store at –
Specificity / Sensitivity	MacroH2A1.2 Antibody isoform 2). The antibody histone H2A.				
Species predicted to react based on 100% sequence homology:	Chicken, Bovine				
Source / Purification	Polyclonal antibodies ar human MacroH2A1.2 pi affinity chromatography	rotein (MacroH2A1,			
Background	Histone macroH2A1 an as two distinct isoforms throughout differentiatio MacroH2A1 and macrol (2,3). Both macroH2A1 sequence identity to can MacroH2A1 and macrol chromosomes in mamm repress gene transcripti histones by p300, and t of macroH2A1.1 binds t DNA damage, where it n (8). MacroH2A1.2 and r PARP (8).	due to alternative s on and development H2A2 are encoded and macroH2A2 pr nonical histone H2A H2A2 are enriched halian females and on by inhibiting the he chromatin-remote to ADP-ribose and f mediates chromatin	plicing of a single g while macroH2A1 by completely distin oteins contain an ar in facultative hetero senescence-associa binding of transcrip deling activities of S unctions to recruit n rearrangements to	ene; macroH2A1.1 leve 2 shows a constant leve ct genes located on se nino-terminal histone-lil rboxy-terminal "macro" chromatin, including ina ated heterochromatin fo tion factors to chromatii WI/SNF and ACF (6,7). nacroH2A1.1 to activate locally regulate the DN	els accumulate el of expression (1). parate chromosomes ke region with 64% domain (1-3). activated X ci (2-5). Both act to n, the acetylation of The macro domain ed PARP at sites of A damage response
Background References	1. Pehrson, J.R. et al. (1 2. Chadwick, B.P. and V 3. Costanzi, C. and Peh 4. Costanzi, C. and Peh 5. Zhang, R. et al. (2005 6. Angelov, D. et al. (2007 7. Doyen, C.M. et al. (2007 8. Timinszky, G. et al. (2007)	Villard, H.F. (2001) J Irson, J.R. (2001) J Irson, J.R. (1998) N 5) Dev Cell 8, 19-30 03) Mol Cell 11, 10 006) Mol Cell Biol 2	Hum Mol Genet 10, Biol Chem 276, 217 ature 393, 599-601). 33-41. 6, 1156-64.	76-84.	
Species Reactivity	Species reactivity is dete	ermined by testing in	n at least one appro	ved application (e.g., w	estern blot).
Western Blot Buffer	IMPORTANT: For wester 0.1% Tween® 20 at 4°C			d primary antibody in 5	% w/v BSA, 1X TBS,

1/1/24, 9:01 AM	MacroH2A1.2 Antibody (#4827) Datasheet Without Images Cell Signaling Technology			
Applications Key	WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)			
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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