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MacroH2A1.2 Antibody

| Applications: W, IF-IC | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 40 | Source/Isotype: Rabbit | UniProt ID: #075367-1 | Entrez-Gene Id: 9555 |
|--|--------------------------------|--|--|--|---|--|
| Product Usage Information | | Application Western Blotting Immunofluorescence | : (Immunocytochem | istry) | | Dilution 1:1000 1:200 |
| Storage | | Supplied in 10 mM so 20°C. Do not aliquot t | | i), 150 mM NaCl, 100 μg. | /ml BSA and 50% gl | ycerol. Store at – |
| Specificity/Sens | sitivity | | 2). The antibody do | bus levels of the core his es not cross-react with l | | |
| Species predict based on 100% homology | | Chicken, Bovine | | | | |
| Source / Purific | ation | | A1.2 protein (Macrol | munizing animals with a 12A1, isoform 2). Antibo | | |
| Background | | exists as two distinct accumulate througho expression (1). Macro separate chromosom histone-like region wi terminal "macro" dom heterochromatin, incl associated heterochro of transcription factor remodeling activities and functions to recru chromatin rearranger | isoforms due to alte but differentiation ar H2A1 and macroH2 es (2,3). Both macro th 64% sequence id hain (1-3). MacroH2/ luding inactivated X omatin foci (2-5). Bo rs to chromatin, the of SWI/SNF and ACF uit macroH2A1.1 to ments to locally regu | nprise a family of variant rmative splicing of a sing ad development while m A2 are encoded by comp H2A1 and macroH2A2 p entity to canonical histo and macroH2A2 are e chromosomes in mamm th act to repress gene tr acetylation of histones (6,7). The macro domai activated PARP at sites c ulate the DNA damage r and are not recruited to | gle gene; macroH24 nacroH2A1.2 shows oletely distinct gene proteins contain an me H2A, in addition enriched in facultati nalian females and ranscription by inhil by p300, and the ch in of macroH2A1.1 I of DNA damage, wh esponse (8). Macro | A1.1 levels a constant level of es located on amino-terminal to a carboxy- ve senescence- biting the binding iromatin- binds to ADP-ribose ere it mediates H2A1.2 and |
| Background Re | ferences | | Willard, H.F. (2001) hrson, J.R. (2001) <i>J E</i> hrson, J.R. (1998) <i>Na</i> 05) <i>Dev Cell</i> 8, 19-30 003) <i>Mol Cell</i> 11, 10 2006) <i>Mol Cell Biol</i> 2 | Hum Mol Genet 10, 110 [:] Riol Chem 276, 21776-84 Ature 393, 599-601. 33-41. 6, 1156-64. | | |
| Species Reactiv | ity | Species reactivity is d | etermined by testin | g in at least one approve | ed application (e.g., | western blot). |
| Western Blot B | uffer | IMPORTANT: For west TBS, 0.1% Tween® 20 | | membrane with diluted shaking, overnight. | primary antibody i | n 5% w/v BSA, 1X |
| Applications Ke | у | W: Western Blotting I | F-IC: Immunofluore | scence (Immunocytoch | emistry) | |
| Cross-Reactivit | у Кеу | H: Human M: Mouse | R: Rat Mk: Monkey | | | |

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