## £4160

## **MacroH2A1.1 Antibody**



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## For Research Use Only. Not for Use in Diagnostic Procedures.

W	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 40	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #O75367-1	Entrez-Gene Id 9555
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		MacroH2A1.1 Antibody detects endogenous levels of the core histone macroH2A1.1 protein (macroH2A1, isoform 1). The antibody does not cross-react with macroH2A1.2 (macroH2A1, isoform 2), macroH2A2 or histone H2A.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the human macroH2A1.1 protein (macroH2A1, isoform 1). Antibodies are purified by protein A and peptide affinity chromatography.				
Background		exists as two distinct accumulate throughc expression (1). Macro separate chromosom histone-like region wi terminal "macro" don	isoforms due to alte out differentiation a H2A1 and macroH2 es (2,3). Both macro th 64% sequence id	nprise a family of varian ernative splicing of a sing and development while m A2 are encoded by com BHZA1 and macroHZA2 p entity to canonical histo	gle gene; macroH2/ nacroH2A1.2 shows pletely distinct gene proteins contain an one H2A, in addition	A1.1 levels a constant level of es located on amino-terminal
		associated heterochro of transcription factor remodeling activities and functions to recru chromatin rearranger	uding inactivated X pmatin foci (2-5). Bors to chromatin, the of SWI/SNF and ACI uit macroH2A1.1 to ments to locally reg	AT and macroHZAZ are e chromosomes in mamr th act to repress gene to acetylation of histones (6,7). The macro domai activated PARP at sites o late the DNA damage r and are not recruited to	nalian females and ranscription by inhil by p300, and the ch in of macroH2A1.1 l of DNA damage, wh response (8). Macrol	ve senescence- biting the binding fromatin- binds to ADP-ribose ere it mediates H2A1.2 and

**Species Reactivity** 

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

**Western Blot Buffer** 

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

W: Western Blotting

**Cross-Reactivity Key** 

H: Human M: Mouse R: Rat

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