

# [KO Validated] macroH2A.1 Rabbit Polyclonal Antibody

## CAB18091



### Product Information

**Size:**

20uL, 50uL, 100uL, 200uL

**Observed MW:**

40kDa

**Calculated MW:**

39kDa

**Applications:**

WB IHC IF

**Reactivity:**

Human, Mouse, Rat

### Antibody Information

**Recommended dilutions:**

WB 1:500 - 1:2000 IHC 1:50  
- 1:200 IF 1:50 - 1:100

**Source:**

Rabbit

**Isotype:**

IgG

**Purification:**

Affinity purification

### Protein Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene encodes a replication-independent histone that is a member of the histone H2A family. It replaces conventional H2A histones in a subset of nucleosomes where it represses transcription and participates in stable X chromosome inactivation. Alternative splicing results in multiple transcript variants encoding different isoforms.

### Immunogen information

**Gene ID:**

9555

**Uniprot**

O75367

**Synonyms:**

H2AFY; H2A.y; H2A/y; H2AF12M; MACROH2A1.1; mH2A1;  
macroH2A1.2

**Immunogen:**

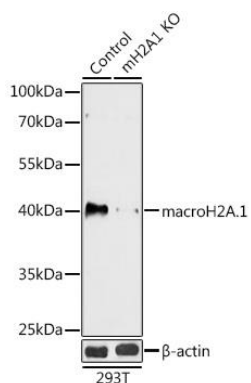
Recombinant fusion protein containing a sequence corresponding to amino acids 123-372 of human macroH2A.1 (NP\_613258.2).

**Storage:**

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Product Images

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Western blot analysis of extracts from normal (control) and macroH2A.1 knockout (KO) 293T cells, using H2AFY antibody (CAB18091) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 60s.