For research purposes only, not for human use

# Product Data Sheet

# Anti-MacroH2A1 Antibody

| Catalog # | Source | Reactivity | Applications |
|---|---|---|---|
| CQA1524 | Rabbit | H, M, R | WB, IH, IF/IC |

| | |
|---|---|
| **Description** | Rabbit polyclonal antibody to MacroH2A1 |
| **Immunogen** | Recombinant full length protein of human MacroH2A1 |
| **Purification** | The antibody was purified by immunogen affinity chromatography. |
| **Specificity** | Recognizes endogenous levels of MacroH2A1 protein. |
| **Clonality** | Polyclonal |
| **Conjugation** | |
| **Form** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Dilution** | WB (1/500 - 1/2000), IH (1/50 - 1/200), IF/IC (1/50 - 1/100) |
| **Gene Symbol** | H2AFY |
| **Alternative Names** | MACROH2A1; Core histone macro-H2A.1; Histone macroH2A1; mH2A1; Histone H2A.y; H2A/y; Medulloblastoma antigen MU-MB-50.205 |
| **Entrez Gene** | 9555 (Human); 26914 (Mouse); 29384 (Rat) |
| **SwissProt** | O75367 (Human); Q9QZQ8 (Mouse); Q02874 (Rat) |
| **Storage/Stability** | Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles. |

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference
**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish


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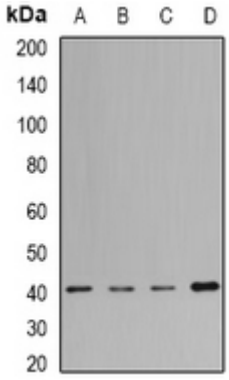
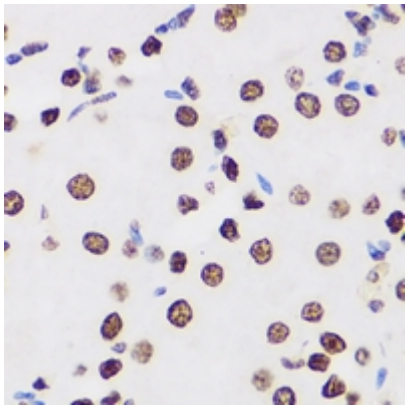
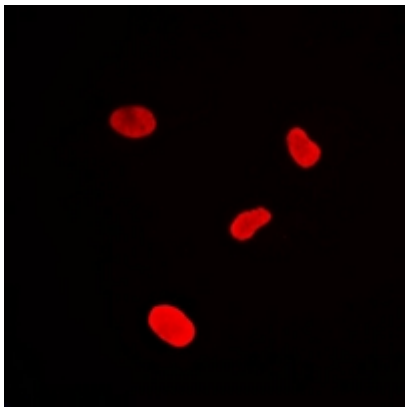



Western blot analysis of MacroH2A1 expression in Jurkat (A), Hela (B), mouse liver (C), rat lung (D) whole cell lysates. (Predicted band size: 39 kD; Observed band size: 40 kD)



Immunohistochemical analysis of MacroH2A1 staining in human kidney formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of MacroH2A1 staining in U2OS cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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