

## Rabbit H2AFY Polyclonal Antibody | anti-H2AFY antibody

H2AFY Polyclonal Antibody

|                              |                       |                                        |                                                                               |
|------------------------------|-----------------------|----------------------------------------|-------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA28109</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Western Blot, Immunohistochemistry, Immunofluorescence</b> |
|------------------------------|-----------------------|----------------------------------------|-------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

H2AFY; Polyclonal Antibody; H2AFY Polyclonal Antibody; H2A.y; H2A/y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2; anti-H2AFY antibody

### PRODUCT SPECIFICATIONS

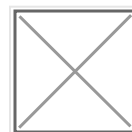
|                                                 |                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                     |
| Clonality                                       | Polyclonal                                                                                                                                            |
| Isotype                                         | IgG                                                                                                                                                   |
| Purity/Purification                             | Affinity Purification                                                                                                                                 |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                |
| Sequence Length                                 | 372                                                                                                                                                   |
| Applicable Applications for anti-H2AFY antibody | WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)                                                                                |
| Application Notes                               | WB: 1:500 - 1:2000<br>IHC: 1:50 - 1:200<br>IF: 1:50 - 1:100                                                                                           |
| Species                                         | Human                                                                                                                                                 |
| Immunogen                                       | Recombinant Protein                                                                                                                                   |
| Immunogen                                       | Recombinant protein of human H2AFY                                                                                                                    |
| Calculated Molecular Weight                     | 40kDa                                                                                                                                                 |
| Preparation and Storage                         | Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles.<br>Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescence analysis of U2OS cells using H2AFY antibody. Blue: DAPI for nuclear staining.



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse cancer using H2AFY antibody at dilution of 1:100 (40x lens).

**IHC (Immunohistochemistry)**

Immunohistochemistry of paraffin-embedded human stomach using H2AFY antibody at dilution of 1:100 (40x lens).

**IHC (Immunohistochemistry)**

Immunohistochemistry of paraffin-embedded human kidney cancer using H2AFY antibody at dilution of 1:100 (40x lens).

**IHC (Immunohistochemistry)**

Immunohistochemistry of paraffin-embedded human kidney using H2AFY antibody at dilution of 1:100 (40x lens).

**WB (Western Blot)**

Western blot analysis of extracts of various cell lines, using H2AFY antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 90s.

## ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-H2AFY antibody</b> | 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 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. |
| <b>Product Categories/Family for anti-H2AFY antibody</b>   | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                            |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | 90110023                                                                                                                                   |
| <b>NCBI GeneID</b>                      | 9555                                                                                                                                       |
| <b>UniProt Accession #</b>              | O75367; O75377; Q503A8; Q7Z5E3; Q96D41; Q9H8P3; Q9UP96                                                                                     |
| <b>Molecular Weight</b>                 | 372                                                                                                                                        |
| <b>NCBI Official Full Name</b>          | Core histone macro-H2A.1                                                                                                                   |
| <b>NCBI Official Synonym Full Names</b> | H2A histone family, member Y                                                                                                               |
| <b>NCBI Official Symbol</b>             | H2AFY                                                                                                                                      |
| <b>NCBI Official Synonym Symbols</b>    | H2A.y; H2A/y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2                                                                              |
| <b>NCBI Protein Information</b>         | core histone macro-H2A.1; histone H2A.y; histone macroH2A1; histone macroH2A1.1; histone macroH2A1.2; medulloblastoma antigen MU-MB-50.205 |
| <b>UniProt Protein Name</b>             | Core histone macro-H2A.1                                                                                                                   |
| <b>UniProt Gene Name</b>                | <b>H2AFY</b>                                                                                                                               |
| <b>UniProt Synonym Gene Names</b>       | MACROH2A1; Histone macroH2A1; mH2A1; H2A/y                                                                                                 |
| <b>UniProt Entry Name</b>               | H2AY_HUMAN                                                                                                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.