

H2AFY antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI14275**Specification**

H2AFY antibody - middle region - Product Information

Application	WB
Primary Accession	O75367
Other Accession	NM_001040158 , NP_001035248
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Mouse, Rat, Pig, Chicken, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39kDa KDa

H2AFY antibody - middle region - Additional Information**Gene ID** 9555**Alias Symbol** H2A.y, H2A/y, H2AF12M, H2AFJ, MACROH2A1.1, mH2A1, macroH2A1.2**Other Names**

Core histone macro-H2A.1, Histone macroH2A1, mH2A1, Histone H2A.y, H2A/y, Medulloblastoma antigen MU-MB-50.205, H2AFY, MACROH2A1

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-H2AFY antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

H2AFY antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

H2AFY antibody - middle region - Protein Information**Name** MACROH2A1 ([HGNC:4740](#))**Function**

Variant histone H2A which replaces conventional H2A in a subset of nucleosomes where it represses transcription (PubMed:12718888, PubMed:15621527, PubMed:16428466). Nucleosomes wrap and compact DNA into chromatin, limiting

DNA accessibility to the cellular machineries which require DNA as a template (PubMed:15897469). Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability (PubMed:15897469). DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Involved in stable X chromosome inactivation (PubMed:15897469). Inhibits the binding of transcription factors, including NF-kappa-B, and interferes with the activity of remodeling SWI/SNF complexes (PubMed:12718888, PubMed:16428466). Inhibits histone acetylation by EP300 and recruits class I HDACs, which induces a hypoacetylated state of chromatin (PubMed:16107708, PubMed:16428466).

Cellular Location

Nucleus. Chromosome. Note=Enriched in inactive X chromosome chromatin and in senescence-associated heterochromatin (PubMed:15621527, PubMed:15897469, PubMed:9634239). Recruited to DNA damage sites in an APLF-dependent manner (PubMed:21211722, PubMed:29905837).

Tissue Location

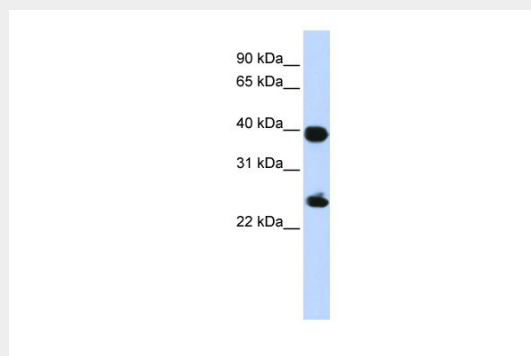
Widely expressed..

H2AFY antibody - middle region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

H2AFY antibody - middle region - Images



WB Suggested Anti-H2AFY Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500

Positive Control: 293T cell lysate

H2AFY is strongly supported by BioGPS gene expression data to be expressed in Human HEK293T cells

H2AFY antibody - middle region - References

Lee Y.,et al.Biochim. Biophys. Acta 1399:73-77(1998).

Mao M.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:8175-8180(1998).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Schmutz J.,et al.Nature 431:268-274(2004).

Behrends U.,et al.Int. J. Cancer 106:244-251(2003).