

YEATS4 Antibody

Mouse Monoclonal Antibody (Mab)
Catalog # AM1885b

Specification

YEATS4 Antibody - Product Information

WB,E Application **Primary Accession** 095619 Other Accession NP 006521.1 Reactivity Human Host Mouse Clonality **Monoclonal** Isotype IgG1,K Calculated MW 26499

YEATS4 Antibody - Additional Information

Gene ID 8089

Other Names

YEATS domain-containing protein 4, Glioma-amplified sequence 41, Gas41, NuMA-binding protein 1, NuBI-1, NuBI1, YEATS4, GAS41

Target/Specificity

This YEATS4 monoclonal antibody is generated from mouse immunized with YEATS4 recombinant protein.

Dilution

WB~~1:500~1000

E~~Use at an assay dependent concentration.

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

YEATS4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

YEATS4 Antibody - Protein Information

Name YEATS4 (HGNC:24859)

Function Chromatin reader component of the NuA4 histone acetyltransferase (HAT) complex, a complex involved in transcriptional activation of select genes principally by acetylation of



nucleosomal histones H4 and H2A (PubMed:12963728, PubMed:14966270). Specifically recognizes and binds acylated histone H3, with a preference for histone H3 diacetylated at 'Lys-18' and 'Lys-27' (H3K18ac and H3K27ac) or histone H3 diacetylated at 'Lys-14' and 'Lys-27' (H3K14ac and H3K27ac) (PubMed:29437725, PubMed:29900004, PubMed:30071723). Also able to recognize and bind crotonylated histone H3 (PubMed:30071723). May also recognize and bind histone H3 succinylated at 'Lys-122' (H3K122succ); additional evidences are however required to confirm this result in vivo (PubMed:29463709). Plays a key role in histone variant H2AZ1/H2A.Z deposition into specific chromatin regions: recognizes and binds H3K14ac and H3K27ac on the promoters of actively transcribed genes and recruits NuA4-related complex to deposit H2AZ1/H2A.Z (PubMed:29437725). H2AZ1/H2A.Z deposition is required for maintenance of embryonic stem cell (By similarity).

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00376, ECO:0000269|PubMed:10913114, ECO:0000269|PubMed:18445686}

Tissue Location

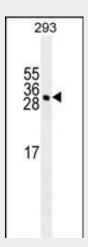
Expressed in brain, heart, kidney, liver, lung, pancreas, placenta and skeletal muscle.

YEATS4 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

YEATS4 Antibody - Images



YEATS4 antibody (Cat. #AM1885b) western blot analysis in 293 cell line lysates (35µg/lane). This demonstrates the YEATS4 antibody detected the YEATS4 protein (arrow).

YEATS4 Antibody - Background

The protein encoded by this gene is found in the nucleoli.





Tel: 858.875.1900 Fax: 858.875.1999

It has high sequence homology to human MLLT1, and yeast and human MLLT3 proteins. Both MLLT1 and MLLT3 proteins belong to a class of transcription factors, indicating that the encoded protein might also represent a transcription factor. This protein is thought to be required for RNA transcription. This gene has been shown to be amplified in tumors.

YEATS4 Antibody - References

Heisel, S., et al. BMC Mol. Biol. 11, 53 (2010): Turner, S.T., et al. Hypertension 52(2):359-365(2008) Italiano, A., et al. Int. J. Cancer 122(10):2233-2241(2008) Gudbjartsson, D.F., et al. Nat. Genet. 40(5):609-615(2008) Park, J.H., et al. Mol. Cell. Biol. 26(11):4006-4016(2006)