

GAS41 (YEATS4/NuBI-1) Antibody (N-term M1) Blocking peptide
Synthetic peptide
Catalog # BP1902a**Specification**

GAS41 (YEATS4/NuBI-1) Antibody (N-term M1) Blocking peptide - Product InformationPrimary Accession [O95619](#)**GAS41 (YEATS4/NuBI-1) Antibody (N-term M1) Blocking peptide - 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

The synthetic peptide sequence used to generate the antibody [AP1902a](/product/products/AP1902a) was selected from the N-term region of human NuBI-1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GAS41 (YEATS4/NuBI-1) Antibody (N-term M1) Blocking peptide - Protein InformationName 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](http://www.uniprot.org/citations/12963728), PubMed: [14966270](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/29437725), PubMed: [30071723](http://www.uniprot.org/citations/30071723), PubMed: [29900004](http://www.uniprot.org/citations/29900004)). Also able to recognize and bind crotonylated histone H3 (PubMed: [30071723](#)).

[30071723](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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.

GAS41 (YEATS4/NuBI-1) Antibody (N-term M1) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

GAS41 (YEATS4/NuBI-1) Antibody (N-term M1) Blocking peptide - Images**GAS41 (YEATS4/NuBI-1) Antibody (N-term M1) Blocking peptide - Background**

NuBI-1 is found in the nucleoli. 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. The gene for this protein has been shown to be amplified in tumors.

GAS41 (YEATS4/NuBI-1) Antibody (N-term M1) Blocking peptide - References

Cai, Y., et al., J. Biol. Chem. 278(44):42733-42736 (2003). Lauffart, B., et al., Genomics 81(2):192-201 (2003). Zimmermann, K., et al., J. Biol. Chem. 277(21):18626-18631 (2002). Debernardi, S., et al., Blood 99(1):275-281 (2002). Munnia, A., et al., Oncogene 20(35):4853-4863 (2001).