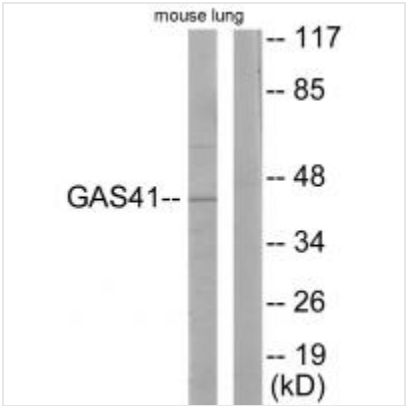
GAS41 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GAS41, Polyclonal Antibody
Full Product Name	GAS41 Antibody
Product Gene Name	anti-GAS41 antibody
Product Synonym Names	YEATS domain-containing protein 4; Glioma-amplified sequence 41; Gas41; NuMA-binding protein 1; NuBI-1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total GAS41 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	26,499 Da
OMIM	602116
3D Structure	ModBase 3D Structure for O95619
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human GAS41.
Target Name	GAS41
Product Categories/Family for anti-GAS41 antibody	Total protein Ab
Applications Tested/Suitable for anti-GAS41 antibody	Western Blot (WB)
Application Notes for anti-GAS41 antibody	Western blotting: 1:500~1:3000
Related Product Information for anti-GAS41 antibody	Component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage.Fischer U., Hum. Mol. Genet. 6:1817-1822(1997).Harborth J., J. Biol. Chem. 275:31979-31985(2000).Ota T., Nat. Genet. 36:40-45(2004).
Other Notes	Small volumes of anti-GAS41 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for GAS41 purchase	MBS9404730 is an antibody targeting GAS41. Also known as GAS41 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-GAS41 antibody
Western blot analysis of extracts from mouse lung cells, using GAS41 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GAS41. It may not necessarily be applicable to this product.

NCBI GI #	665821257
NCBI GeneID	8089
NCBI Accession #	NP_001287879.1
UniProt Primary Accession #	O95619
UniProt Secondary Accession #	Q9NQD0
UniProt Related Accession #	O95619
GenBank Nucleotide #	NM_001300950.1
NCBI Official Full Name	YEATS domain-containing protein 4 isoform 2
NCBI Official Synonym Full Names	YEATS domain containing 4
NCBI Official Symbol	YEATS4
NCBI Official Synonym Symbols	YAF9; GAS41; NUBI-1; 4930573H17Rik; B230215M10Rik
UniProt Protein Name	YEATS domain-containing protein 4
UniProt Synonym Protein Names	Glioma-amplified sequence 41; Gas41; NuMA-binding protein 1; NuBI-1; NuBI1
UniProt Gene Name	YEATS4
UniProt Synonym Gene Names	GAS41; Gas41; NuBI-1; NuBI1
UniProt Entry Name	YETS4_HUMAN
NCBI Protein Information	YEATS domain-containing protein 4
NCBI Summary for GAS41	The protein encoded by this gene 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. This gene has been shown to be amplified in tumors. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2014]

UniProt Comments for GAS41	YEATS4: Component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage. Protein type: Transcription factor Chromosomal Location of Human Ortholog: 12q13-q15 Cellular Component: nucleoplasm; NuA4 histone acetyltransferase complex; nuclear matrix; cytoplasm; nucleolus Molecular Function: protein C-terminus binding; protein binding; DNA binding; structural constituent of cytoskeleton; transcription factor activity Biological Process: mitosis; establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; regulation of growth
Research Articles on GAS41	**1.** Findings reveal YEATS4 as a candidate oncogene amplified in NSCLC, and a novel mechanism contributing to NSCLC pathogenesis
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