



Rabbit Anti-GAS41 antibody

SL13290R

Product Name:	GAS41
Chinese Name:	NuBI蛋白Binding protein1 抗体
Alias:	4930573H17Rik; B230215M10Rik; GAS 41; Gas41; glioma amplified sequence 41; Glioma-amplified sequence 41; glioma-amplified sequence-41; gliomaamplified sequence 41; gliomaamplified sequence41; NUBI 1; NuBI-1; NuBI1; NuMA binding protein 1; NuMA-binding protein 1; YAF9; YEATS domain containing 4; YEATS domain containing4; YEATS domain-containing protein 4; YEATS4; YETS4_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Cow,Horse,Rabbit,Zebrafish,Xenopus laevis
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	26kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GAS41:151-227/227
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Gene amplification is associated with tumor stage and progression in human gliomas. Several amplified loci are identified and comprise multiple genes. The glioma amplified sequence 41 (GAS41) is an evolutionarily conserved eukaryotic protein found in diverse

species. GAS41 is related to the AF-9 and ENL proteins, which are putative transcription factors in some acute leukemias, and interacts with a component of the nuclear matrix, NuMA, in interphase cells. GAS41 has a dotted staining pattern in interphase nuclei and a uniform distribution in mitotic cells. GAS41 is ubiquitously expressed, with the highest levels of expression in human brain. In neuroblastoma, GAS41 is located in the nucleoli, but not in the nucleoplasm. GAS41 also binds to the MLL fusion partner AF10, which is involved in two distinct chromosomal translocations associated with hematologic malignancy. In addition, GAS41 interacts with INI1 (Integrase Interactor), which is a human homologue of the yeast SNF5 protein, a component of the SWI/SNF complex. The GAS41 gene maps to human chromosome 12q13-q15.

Function:

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.

Subunit:

Component of numerous complexes with chromatin remodeling and histone acetyltransferase activity. Component of the NuA4 histone acetyltransferase complex which contains the catalytic subunit KAT5/TIP60 and the subunits EP400, TRRAP/PAF400, BRD8/SMAP, EPC1, DMAP1/DNMAP1, RUVBL1/TIP49, RUVBL2, ING3, actin, ACTL6A/BAF53A, MORF4L1/MRG15, MORF4L2/MRGX, MRGBP, YEATS4/GAS41, VPS72/YL1 and MEAF6. The NuA4 complex interacts with MYC and the adenovirus E1A protein. Component of a NuA4-related complex which contains EP400, TRRAP/PAF400, SRCAP, BRD8/SMAP, EPC1, DMAP1/DNMAP1, RUVBL1/TIP49, RUVBL2, actin, ACTL6A/BAF53A, VPS72 and YEATS4/GAS41. YEATS4 interacts with MLLT10/AF10. YEATS4 may also interact with the SWI/SNF component SMARCB1/BAF47, TACC1 and TACC2, and the nuclear matrix protein NUMA1.

Subcellular Location:

Nucleus.

Tissue Specificity:

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

Similarity:

Contains 1 YEATS domain.

SWISS:

O95619

Gene ID:
8089

Database links:

[Entrez Gene: 771226](#)Chicken

[Entrez Gene: 615330](#)Cow

[Entrez Gene: 8089](#)Human

[Entrez Gene: 64050](#)Mouse

[Entrez Gene: 299810](#)Rat

[Entrez Gene: 100302361](#)Sheep

[Entrez Gene: 398909](#)Xenopus laevis

[Entrez Gene: 437025](#)Zebrafish

[Omim: 602116](#)Human

[SwissProt: O95619](#)Human

[SwissProt: Q9CR11](#)Mouse

[Unigene: 4029](#)Human

[Unigene: 233529](#)Mouse

[Unigene: 103329](#)Rat

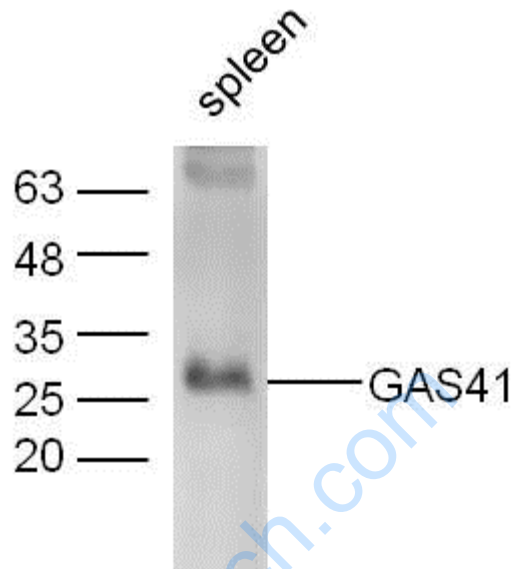
[Unigene: 34477](#)Xenopus laevis

[Unigene: 88142](#)Zebrafish

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample: Spleen (Mouse) Lysate at 40 ug

Primary: Anti-GAS41(SL13290R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 26 kD

Observed band size: 26 kD