YEATS4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	YEATS4, Polyclonal Antibody
Full Product Name	YEATS4 (YEATS4, GAS41, YEATS domain-containing protein 4, Glioma-amplified sequence 41, NuMA-binding protein 1) (MaxLight 650)
Product Gene Name	anti-YEATS4 antibody
Product Synonym Names	YEATS4; GAS41; YEATS domain-containing protein 4; Glioma-amplified sequence 41; NuMA-binding protein 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	26,499 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (69753532..69784576). Location: 12q13-q15
OMIM	602116
3D Structure	ModBase 3D Structure for O95619
Immunogen	YEATS4 antibody is generated from rabbits immunized with a recombinant protein from human YEATS4.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-YEATS4 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-YEATS4 antibody	Western Blot (WB), FLISA
Application Notes for anti-YEATS4 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-YEATS4 antibody	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.
Product References and Citations for anti-YEATS4 antibody	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).

Other Notes	Small volumes of anti-YEATS4 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 YEATS4 purchase	MBS6364234 is an antibody targeting YEATS4. Also known as YEATS4 (YEATS4, GAS41, YEATS domain-containing protein 4, Glioma-amplified sequence 41, NuMA-binding protein 1) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for YEATS4. It may not necessarily be applicable to this product.

NCBI GI #	5729838
NCBI GeneID	8089
NCBI Accession #	NP_006521.1
UniProt Primary Accession #	O95619
UniProt Secondary Accession #	Q9NQD0
UniProt Related Accession #	O95619
GenBank Nucleotide #	NM_006530.2
NCBI Official Full Name	YEATS domain-containing protein 4
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
Protein Family	YEATS domain-containing protein
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; nuBI1; NuMA binding protein 1; nuMA-binding protein 1; glioma-amplified sequence 41; glioma-amplified sequence-41
UniProt Comments for YEATS4	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; regulation of growth; positive regulation of transcription, DNA-dependent

Research Articles on YEATS4	**1.** GAS41 amplification results in overexpression and associtated with glioblastoma.
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