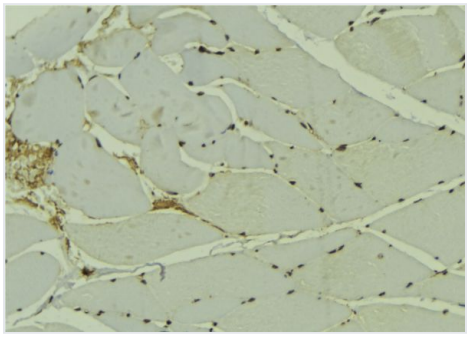
ING3 Antibody – Rabbit Polyclonal

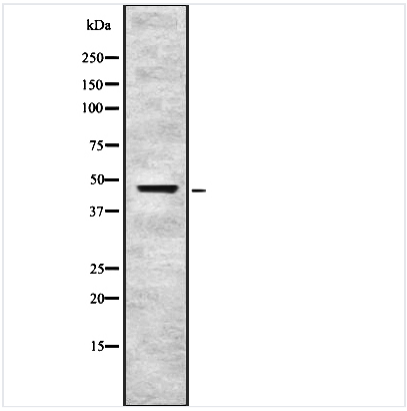
PRODUCT OVERVIEW

Product Name	ING3, Polyclonal Antibody
Full Product Name	ING3 Antibody
Product Gene Name	anti-ING3 antibody
Product Synonym Names	1300013A07Rik; Eaf 4; Eaf4; FLJ20089; ING 2; ING 3; ING2; ING3; ING3_HUMAN; Inhibitor of growth family member 3; Inhibitor of growth protein 3; MEAF4; p47 ING 3; p47 ING3; p47 regulator protein; p47ING3; p47ING3 protein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	ING3 antibody detects endogenous levels of total ING3
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	ING3 peptide (MBS9627255) is used for blocking the activity of ING3 antibody (MBS9608543)
Molecular Weight	Observed: 47 kDa Predicted: 47 kDa
3D Structure	ModBase 3D Structure for Q9NXR8
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human ING3
Subcellular Location	Nuclear
Tissue Specificity	Expressed in brain, heart, kidney, liver, lung, ovaries, placenta, prostate, skeletal muscle, small intestine, spleen, testis and thymus.
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ING3 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-ING3 antibody	WB: 1:1000-3000 IHC: 1:200

Related Product Information for anti-ING3 antibody	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 directly recruited to sites of DNA damage. Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AFZ from the nucleosome. Subunit Structure: Interacts with H3K4me3 and to a lesser extent with H3K4me2. 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. HTATTIP/TIP60, EPC1, and ING3 together constitute a minimal HAT complex termed Piccolo NuA4. Component of a SWR1-like complex. Similarity: The PHD-type zinc finger mediates the binding to H3K4me3. Belongs to the ING family.
Other Notes	Small volumes of anti-ING3 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 ING3 purchase	MBS9608543 is an antibody targeting ING3. Also known as ING3 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-ING3 antibody
MBS9608543 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western Blot (WB) of anti-ING3 antibody
Western blot analysis ING3 using HeLa whole cell lysates

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ING3. It may not necessarily be applicable to this product.

NCBI GI #	38201655
NCBI GeneID	54556
NCBI Accession #	NP_061944.2
UniProt Primary Accession #	Q9NXR8
UniProt Secondary Accession #	O60394; Q567P3; Q6GMT3; Q7Z762; Q969G0; Q96DT4; Q9HC99; Q9P081; A8K790
UniProt Related Accession #	Q9NXR8
GenBank Nucleotide #	NM_019071.2
NCBI Official Full Name	inhibitor of growth protein 3 isoform 1
NCBI Official Synonym Full Names	inhibitor of growth family member 3
NCBI Official Symbol	ING3
NCBI Official Synonym Symbols	Eaf4; ING2; MEAF4; p47ING3

UniProt Protein Name	Inhibitor of growth protein 3
UniProt Synonym Protein Names	p47ING3
Protein Family	Inhibitor of growth protein
UniProt Gene Name	ING3
NCBI Protein Information	inhibitor of growth protein 3
NCBI Summary for ING3	The protein encoded by this gene is similar to ING1, a tumor suppressor protein that can interact with TP53, inhibit cell growth, and induce apoptosis. This protein contains a PHD-finger, which is a common motif in proteins involved in chromatin remodeling. This gene can activate p53 trans-activated promoters, including promoters of p21/waf1 and bax. Overexpression of this gene has been shown to inhibit cell growth and induce apoptosis. Allelic loss and reduced expression of this gene were detected in head and neck cancers. Two alternatively spliced transcript variants encoding different isoforms have been observed. [provided by RefSeq, Jul 2008]
UniProt Comments for ING3	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 directly recruited to sites of DNA damage. Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AFZ from the nucleosome.
Research Articles on ING3	**1.** results reveal the molecular mechanism of H3K4me3 selection by the ING3PHD and suggest that this interaction is important for mediating ING3 tumor suppressive activities.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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