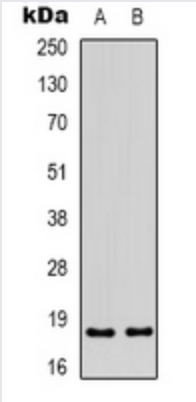
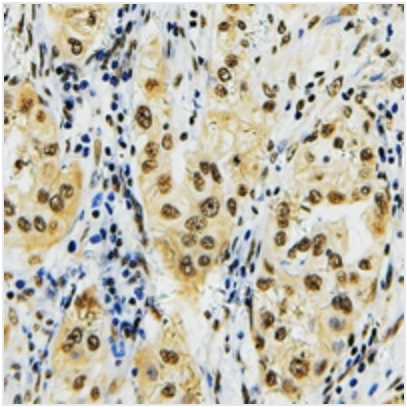
ID4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ID4, Polyclonal Antibody
Full Product Name	Rabbit anti-ID4 Antibody
Product Gene Name	anti-ID4 antibody
Product Synonym Names	BHLHB27; DNA-binding protein inhibitor ID-4; Class B basic helix-loop-helix protein 27; bHLHb27; Inhibitor of DNA binding 4
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat, Pig
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	16,622 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (19837601..19842431). Location: 6p22.3
OMIM	600581
3D Structure	ModBase 3D Structure for P47928
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human ID4. The exact sequence is proprietary.
Product Categories/Family for anti-ID4 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-ID4 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-ID4 antibody	WB: 1:500-1:1000 IHC: 1:100-1:200
Related Product Information for anti-ID4 antibody	MBS4509684 is an antibody targeting ID4. Also known as Rabbit anti-ID4 Antibody. Reactive in Human, Mouse, Rat, Pig. Host: Rabbit.
Other Notes	Small volumes of anti-ID4 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.



Western Blot (WB) of anti-ID4 antibody
Western blot analysis of ID4 expression in HEK293T (A), HepG2 (B) whole cell lysates.



Immunohistochemistry (IHC) of anti-ID4 antibody
Immunohistochemical analysis of ID4 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ID4. It may not necessarily be applicable to this product.

NCBI GI #	4504573
NCBI GeneID	3400
NCBI Accession #	NP_001537.1
UniProt Primary Accession #	P47928
UniProt Secondary Accession #	P41139
UniProt Related Accession #	P47928
GenBank Nucleotide #	NM_001546.3
NCBI Official Full Name	DNA-binding protein inhibitor ID-4
NCBI Official Synonym Full Names	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein
NCBI Official Symbol	ID4
NCBI Official Synonym Symbols	IDB4; bHLHb27
UniProt Protein Name	DNA-binding protein inhibitor ID-4
UniProt Synonym Protein Names	Class B basic helix-loop-helix protein 27; bHLHb27; Inhibitor of DNA binding 4
Protein Family	DNA-binding protein inhibitor
UniProt Gene Name	ID4
UniProt Synonym Gene Names	BHLHB27; bHLHb27
UniProt Entry Name	ID4_HUMAN
NCBI Protein Information	DNA-binding protein inhibitor ID-4; class B basic helix-loop-helix protein 27
NCBI Summary for ID4	This gene encodes a member of the inhibitor of DNA binding (ID) protein family. These proteins are basic helix-loop-helix transcription factors which can act as tumor suppressors but lack DNA binding activity. Consequently, the activity of the encoded protein depends on the protein binding partner. [provided by RefSeq, Dec 2011]

UniProt Comments for ID4	ID4: ID (inhibitor of DNA binding) HLH proteins lack a basic DNA-binding domain but are able to form heterodimers with other HLH proteins, thereby inhibiting DNA binding. Protein type: Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 6p22.3 Cellular Component: cytoplasm; nucleus Molecular Function: protein dimerization activity; protein binding; transcription corepressor activity Biological Process: fat cell differentiation; circadian rhythm; transcription, DNA-dependent; myelination in the central nervous system; hippocampus development; negative regulation of transcription from RNA polymerase II promoter; negative regulation of fat cell differentiation; cerebral cortex neuron differentiation; regulation of transcription from RNA polymerase II promoter; negative regulation of oligodendrocyte differentiation; positive regulation of osteoblast differentiation; negative regulation of neuron differentiation; positive regulation of cell proliferation; negative regulation of astrocyte differentiation; neuroblast proliferation; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; G1/S transition of mitotic cell cycle
Research Articles on ID4	**1.** These data suggest that methylation of Id4 may be involved in the pathogenesis of GBM and in the resistance of this neoplasm to conventional treatment throughout MGP-mediated neoangiogenesis.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-pig-rat-antibody/id4/4509684