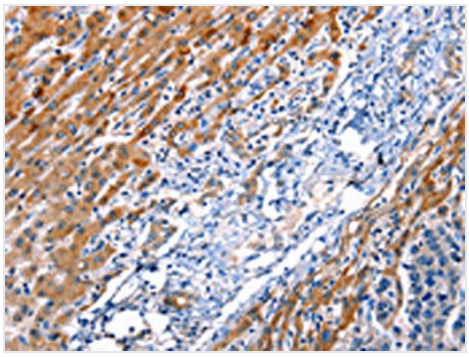
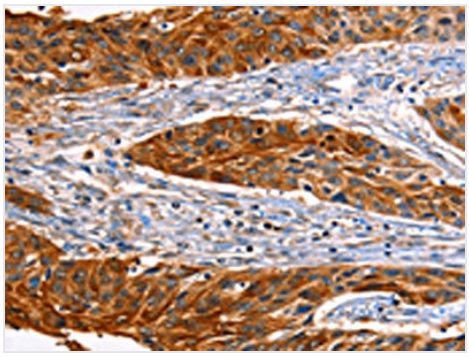
ID4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ID4, Polyclonal Antibody
Full Product Name	ID4 Antibody
Product Gene Name	anti-ID4 antibody
Product Synonym Names	inhibitor of DNA binding 4; dominant negative helix-loop-helix protein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
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	Synthetic peptide of human ID4
Immunogen Species	Human
Conjugate	Non-conjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ID4 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-ID4 antibody	ELISA: 1:1000-1:5000 IHC: 1:20-1:100
Related Product Information for anti-ID4 antibody	MBS7127196 is an antibody targeting ID4. Also known as ID4 Antibody. Reactive in Human, Mouse. 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.



Immunohistochemistry (IHC)-Paraffin of anti-ID4 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using MBS7127196(ID4 Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry (IHC)-Paraffin of anti-ID4 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using MBS7127196(ID4 Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: ×200)

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 #	Q13005
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.
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