ID4 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	ID4, Blocking Peptide
Full Product Name	ID4 Antibody (N-term) Blocking Peptide
Product Gene Name	ID4 blocking peptide
Product Synonym Gene Name	BHLHB27
Product Synonym Names	DNA-binding protein inhibitor ID-4; Class B basic helix-loop-helix protein 27; bHLHb27; Inhibitor of DNA binding 4; Inhibitor of differentiation 4; ID4; BHLHB27
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	ID4 peptide (MBS9228520) is used for blocking the activity of ID4 antibody (MBS9210658)
Molecular Weight	16,622 Da
OMIM	600581
Cellular Location	Nucleus.
Related Product Information for ID4 blocking peptide	Transcriptional regulator (lacking a basic DNA binding domain) which negatively regulates the basic helix-loop-helix (bHLH) transcription factors by forming heterodimers and inhibiting their DNA binding and transcriptional activity. Implicated in regulating a variety of cellular processes, including cellular growth, senescence, differentiation, apoptosis, angiogenesis, and neoplastic transformation (By similarity).
Other Notes	Small volumes of ID4 blocking peptide 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 ID4 purchase	MBS9228520 is a blocking peptide targeting ID4. Also known as ID4 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	1352422
NCBI GeneID	3400
NCBI Accession #	P47928.1
UniProt Primary Accession #	P47928
UniProt Secondary Accession #	Q13005
UniProt Related Accession #	P47928
NCBI Official Full Name	DNA-binding protein inhibitor ID-4
NCBI Official Synonym Full Names	inhibitor of DNA binding 4, HLH 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; Inhibitor of differentiation 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
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: nucleus Molecular Function: protein binding; transcription corepressor activity Biological Process: negative regulation of transcription, DNA-dependent; regulation of transcription from RNA polymerase II promoter
Research Articles on ID4	**1.** ID4 marks a stem cell-enriched subset of the mammary basal cell population. ID4 is specifically expressed by a subset of human basal-like breast cancer that possess a very poor prognosis and a transcriptional signature similar to a mammary stem cell.
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