ID2 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	ID2, Lysate
Full Product Name	Human ID2 Protein Lysate
Product Gene Name	ID2 lysate
Product Synonym Names	ID2; bHLHb26; GIG8; ID2A; ID2H
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	17.0 kDa (154aa)
OMIM	600386
3D Structure	ModBase 3D Structure for Q02363
Related Product Information for ID2 lysate	Human ID2 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of ID2 lysate 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 ID2 purchase	MBS8413305 is a lysate targeting ID2. Also known as Human ID2 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ID2. It may not necessarily be applicable to this product.

NCBI GI #	31982933
NCBI GeneID	3398
NCBI Accession #	NP_002157
UniProt Primary Accession #	Q02363
UniProt Related Accession #	Q02363
GenBank Nucleotide #	NM_002166
NCBI Official Full Name	DNA-binding protein inhibitor ID-2
NCBI Official Synonym Full Names	inhibitor of DNA binding 2
NCBI Official Symbol	ID2
NCBI Official Synonym Symbols	GIG8; ID2A; ID2H; bHLHb26
UniProt Protein Name	DNA-binding protein inhibitor ID-2
UniProt Synonym Protein Names	Class B basic helix-loop-helix protein 26; bHLHb26; Inhibitor of DNA binding 2; Inhibitor of differentiation 2
Protein Family	DNA-binding protein inhibitor

UniProt Gene Name	ID2
UniProt Synonym Gene Names	BHLHB26; bHLHb26
UniProt Entry Name	ID2_HUMAN
NCBI Protein Information	DNA-binding protein inhibitor ID-2
NCBI Summary for ID2	The protein encoded by this gene belongs to the inhibitor of DNA binding family, members of which are transcriptional regulators that contain a helix-loop-helix (HLH) domain but not a basic domain. Members of the inhibitor of DNA binding family inhibit the functions of basic helix-loop-helix transcription factors in a dominant-negative manner by suppressing their heterodimerization partners through the HLH domains. This protein may play a role in negatively regulating cell differentiation. A pseudogene of this gene is located on chromosome 3. [provided by RefSeq, Aug 2011]
UniProt Comments for ID2	ID2: 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. ID-2 may be an inhibitor of tissue-specific gene expression. Heterodimer with other HLH proteins. Interacts with GATA4, IFI204 and NKX2-5. Interacts with NR0B2. Highly expressed in early fetal tissues, including those of the central nervous system. Protein type: DNA-binding; Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 2p25 Cellular Component: microtubule cytoskeleton; nucleoplasm; centrosome; protein complex; cytoplasm; nucleus; chromatin; cytosol Molecular Function: protein dimerization activity; protein binding Biological Process: regulation of lipid metabolic process; positive regulation of transcription, DNA-dependent; multicellular organismal development; positive regulation of smooth muscle cell proliferation; cell maturation; negative regulation of transcription from RNA polymerase II promoter; entrainment of circadian clock by photoperiod; locomotor rhythm; embryonic digestive tract morphogenesis; natural killer cell differentiation; negative regulation of osteoblast differentiation; circadian regulation of gene expression; positive regulation of macrophage differentiation; oligodendrocyte development; positive regulation of astrocyte differentiation; Peyer's patch development; negative regulation of B cell differentiation; transcription, DNA-dependent; negative regulation of transcription factor activity; positive regulation of erythrocyte differentiation; olfactory bulb development; neuron fate commitment; mammary gland epithelial cell proliferation; enucleate erythrocyte differentiation; regulation of circadian rhythm; negative regulation of DNA binding; negative regulation of oligodendrocyte differentiation; negative regulation of neuron differentiation; positive regulation of fat cell differentiation; negative regulation of transcription, DNA-dependent; metanephros development; positive regulation of blood pressure
Research Articles on ID2	**1.** ID2 is localized to peritoneal mesothelial and stromal cells of women with and without endometriosis. ID2 mRNA expression is lower in peritoneum adjacent to the endometriosis lesions compared to distal sites
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