Recombinant Human ID2

Cat. No. ID2-28380TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human ID2 protein with a proprietary tag; predicted molecular weight 40.48 kDa, inclusive of tag. AAH30639
Species	Human
Source	Wheat Germ
ProteinLength	135 amino acids
Description	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.
Molecular Weight	40.480kDa inclusive of tags
Tissue specificity	Highly expressed in early fetal tissues, including those of the central nervous system.
Biological activity	useful for Antibody Production and Protein Array
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: Glutathione is reduced
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Contains 1 basic helix-loop-helix (bHLH) domain.

GENE INFORMATION

Gene Name	ID2 inhibitor of DNA binding 2, dominant negative helix-loop-helix protein [Homo sapiens]
Official Symbol	ID2
Synonyms	ID2; inhibitor of DNA binding 2, dominant negative helix-loop-helix protein; DNA-binding protein inhibitor ID-2; bHLHb26; cell growth inhibiting gene 8; GIG8;
Gene ID	3398
mRNA Refseq	NM_002166
Protein Refseq	NP_002157
MIM	600386
Uniprot ID	Q02363
Chromosome Location	2p25

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Pathway	HIF-1-alpha transcription factor network, organism-specific biosystem; Id Signaling Pathway, organism-specific biosystem; Regulation of Wnt-mediated beta catenin signaling and target gene transcription, organism-specific biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem;
Function	protein binding;

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