Recombinant Human ID2 293 Cell Lysate

Cat. No. ID2-5311HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for inhibitor of DNA binding 2, dominant negative helix-loop-helix protein (ID2) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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; helix-loop-helix protein ID2; cell growth-inhibiting gene 8; inhibitor of differentiation 2; DNA-binding protein inhibitor ID2; class B basic helix-loop-helix protein 26; ID2A; ID2H; MGC26389;
Gene ID	3398
mRNA Refseq	NM_002166
Protein Refseq	NP_002157
MIM	600386
UniProt ID	Q02363
Chromosome Location	2p25
Pathway	HIF-1-alpha transcription factor network, organism-specific biosystem; Id Signaling

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	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; Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem;
Function	ion channel binding; protein binding;

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