

For Research Use Only

ID1 Monoclonal antibody

Catalog Number: 67827-1-Ig 4 Publications



Basic Information

Catalog Number: 67827-1-Ig	GenBank Accession Number: BC000613	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 3397	CloneNo.: 1H3G11
Source: Mouse	UNIPROT ID: P41134	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:150-1:600
Isotype: IgG1	Full Name: inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	
Immunogen Catalog Number: AG13359	Calculated MW: 16 kDa	
	Observed MW: 18 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: WB, IHC	WB: A549 cells, HeLa cells, PC-3 cells, HepG2 cells, Jurkat cells, HSC-T6 cells, 4T1 cells
Species Specificity: Human, mouse, rat	IHC: human lung cancer tissue,
Cited Species: human, rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

ID (inhibitor of DNA binding) proteins contain a helix-loop-helix (HLH) motif and regulate tissue-specific transcription within several cell lineages. They do not bind DNA directly, but inhibit lineage commitment by binding basic helix-loop-helix (bHLH) transcription factors through their HLH motif. ID1 proteins lack a basic DNA-binding domain but are able to form heterodimers with other HLH proteins, thereby inhibiting DNA binding. ID proteins contribute to cell growth, senescence, differentiation, and angiogenesis. Inhibitor of differentiation or DNA binding-1 (ID1) interacts with the transactivation domain of p65 (p65TAD) both in vitro and in vivo. The molecular weight of ID1 is about 18 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Lijun Li	34658848	Front Pharmacol	WB
Lin Lu	35487890	Oncogenesis	WB
Zimei Zeng	37416767	Int J Biol Sci	WB,IHC

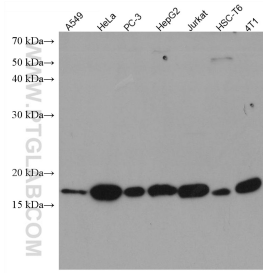
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

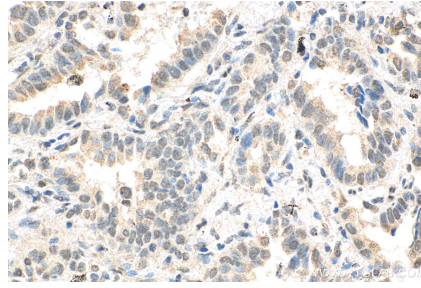
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67827-1-Ig (ID1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 67827-1-Ig (ID1 antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).