

For Research Use Only

# ID3 Recombinant monoclonal antibody

Catalog Number: 86979-1-RR



## Basic Information

<b>Catalog Number:</b> 86979-1-RR	<b>GenBank Accession Number:</b> BC003107	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3399	<b>CloneNo.:</b> 252047B8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q02535	<b>Recommended Dilutions:</b> WB: 1:2000-1:10000 IF/ICC: 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> inhibitor of DNA binding 3, dominant negative helix-loop-helix protein	
<b>Immunogen Catalog Number:</b> AG0588	<b>Calculated MW:</b> 119 aa, 13 kDa	
	<b>Observed MW:</b> 13-15 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB :</b> HeLa cells, A549 cells, Ramos cells, Jurkat cells, NIH/3T3 cells, HSC-T6 cells
	<b>IF/ICC :</b> HeLa cells,

## Background Information

The helix-loop-helix (HLH) family of transcription factors plays a central role in the regulation of cell growth, differentiation and tumorigenesis. Members of the Id (inhibitor of DNA binding) class of these nuclear proteins are able to heterodimerise with and thereby antagonise the functions of other transcription factors of this family. Inhibitor of DNA binding 3, dominant negative helix-loop-helix protein (ID3, synonym: HEIR-1) is a member of the ID family of HLH proteins, which lacks a basic DNA-binding domain and inhibits transcription through formation of nonfunctional dimers that are incapable of binding to DNA.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

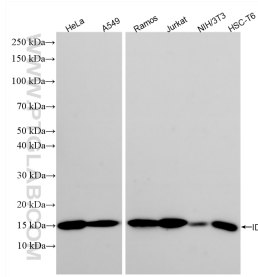
For technical support and original validation data for this product please contact:

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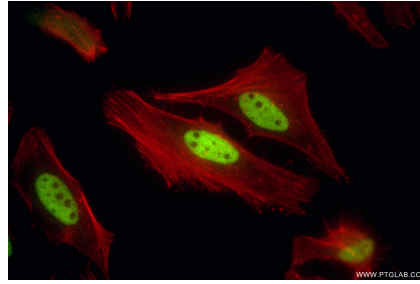
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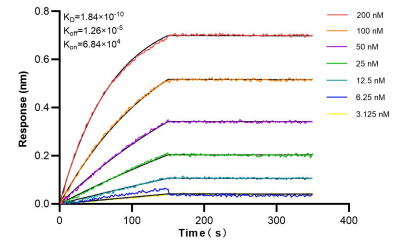
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86979-1-RR (ID3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ID3 antibody (86979-1-RR, Clone: 252047B8) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Bi-layer interferometry (BLI) kinetic assays of 86979-1-RR against Human ID3 were performed. The affinity constant is 0.184 nM.