

For Research Use Only

ID3 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 86979-1-PBS



Basic Information

Catalog Number: 86979-1-PBS	GenBank Accession Number: BC003107	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 3399	CloneNo.: 252047B8
Source: Rabbit	UNIPROT ID: Q02535	
Isotype: IgG	Full Name: inhibitor of DNA binding 3, dominant negative helix-loop-helix protein	
Immunogen Catalog Number: AG0588	Calculated MW: 119 aa, 13 kDa	
	Observed MW: 13-15 kDa	

Applications

Tested Applications:
WB, IF/ICC, Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

86979-1-PBS targets ID3 as part of a matched antibody pair:

MP02842-1: 86979-1-PBS capture and 86979-2-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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 -80°C.

Storage Buffer:
PBS only, pH7.3

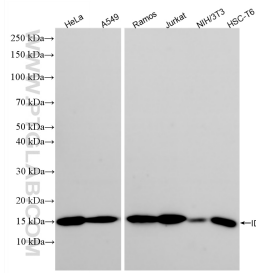
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

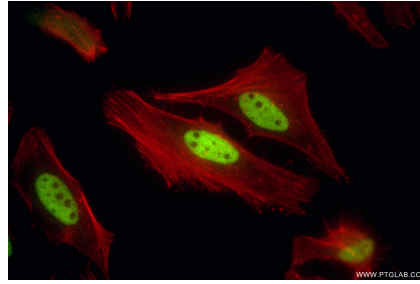
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

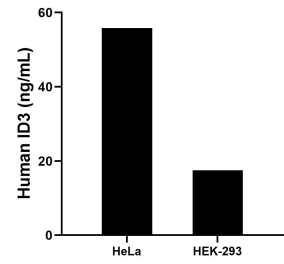
Selected Validation Data



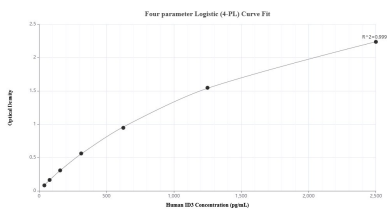
Various lysates were subjected to SDS PAGE followed by western blot with 86979-1-RR (ID3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86979-1-PBS in a different storage buffer formulation.



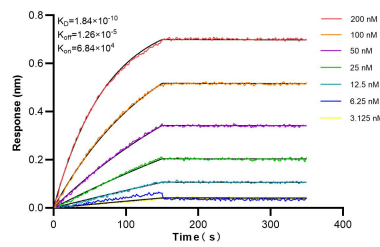
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ID3 antibody (86979-1-RR, Clone: 252047B8) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 86979-1-PBS in a different storage buffer formulation.



The mean ID3 concentration was determined to be 55.78 ng/mL in HeLa cell extract based on a 1.2 mg/mL extract load and 17.49 ng/mL in HEK-293 cell extract based on a 1.2 mg/mL extract load.



Sandwich ELISA standard curve of MP02842-1, Human ID3 Recombinant Matched Antibody Pair - PBS only. 86979-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag0588. 86979-2-PBS was HRP conjugated as the detection antibody. Range: 39.1-2500 pg/mL.



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