

For Research Use Only

HDAC1 Recombinant antibody, PBS Only (Capture)

Catalog Number:83624-1-PBS



Basic Information

| | | |
|---|--|---|
| Catalog Number: 83624-1-PBS | GenBank Accession Number: BC000301 | Purification Method: Protein A purification |
| Size: 100ug , Concentration: 1 mg/ml by Nanodrop; | GeneID (NCBI): 3065 | CloneNo.: 240614A3 |
| Source: Rabbit | UNIPROT ID: Q13547 | |
| Isotype: IgG | Full Name: histone deacetylase 1 | |
| Immunogen Catalog Number: AG0256 | Calculated MW: 55 kDa | |
| | Observed MW: 58-66 kDa | |

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse

Product Information

83624-1-PBS targets HDAC1 as part of a matched antibody pair:

MP00577-3: 83624-1-PBS capture and 83624-3-PBS detection (validated in Cytometric bead array)

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

Histone deacetylases (HDAC) are a class of enzymes that remove the acetyl groups from the lysine residues leading to the formation of a condensed and transcriptionally silenced chromatin. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex, which is responsible for gene expression silencing. It also plays an important role in the control of cell proliferation and differentiation by interacting with RB, p53 and other transcription factors. At least 4 classes of HDAC were identified. As a class I HDAC, HDAC 1 was primarily found in the nucleus.

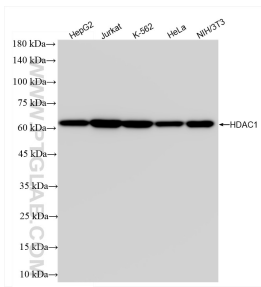
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

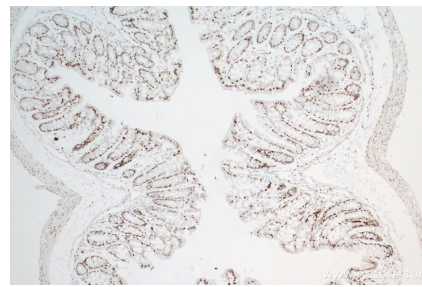
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

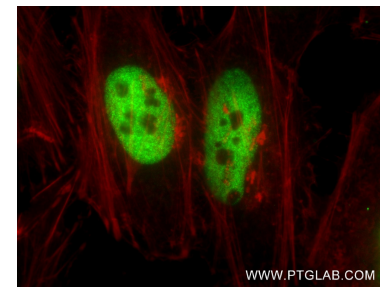
Selected Validation Data



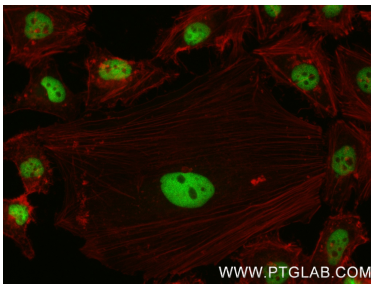
Various lysates were subjected to SDS PAGE followed by western blot with 83624-1-RR (HDAC1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83624-1-PBS in a different storage buffer formulation.



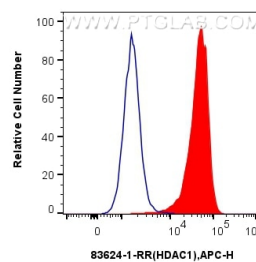
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 83624-1-RR (HDAC1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83624-1-PBS in a different storage buffer formulation.



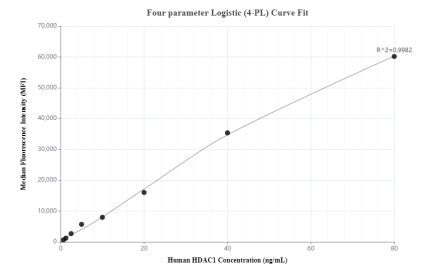
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using HDAC1 antibody (83624-1-RR, Clone: 240614A3) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83624-1-PBS in a different storage buffer formulation.



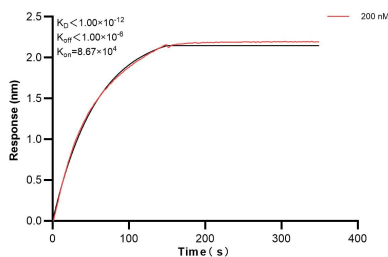
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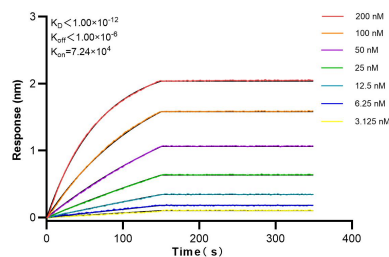
1×10^6 HeLa cells were intracellularly stained with 0.25 ug HDAC1 Recombinant antibody (83624-1-RR, Clone:240614A3) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83624-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00577-3, HDAC1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83624-1-PBS. Detection antibody: 83624-3-PBS. Standard: Ag0256. Range: 0.625-80 ng/mL.



Biolayer interferometry (BLI) kinetic assay of 83624-1-PBS against Human HDAC1 was performed. The affinity constant is below 1 pM.



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