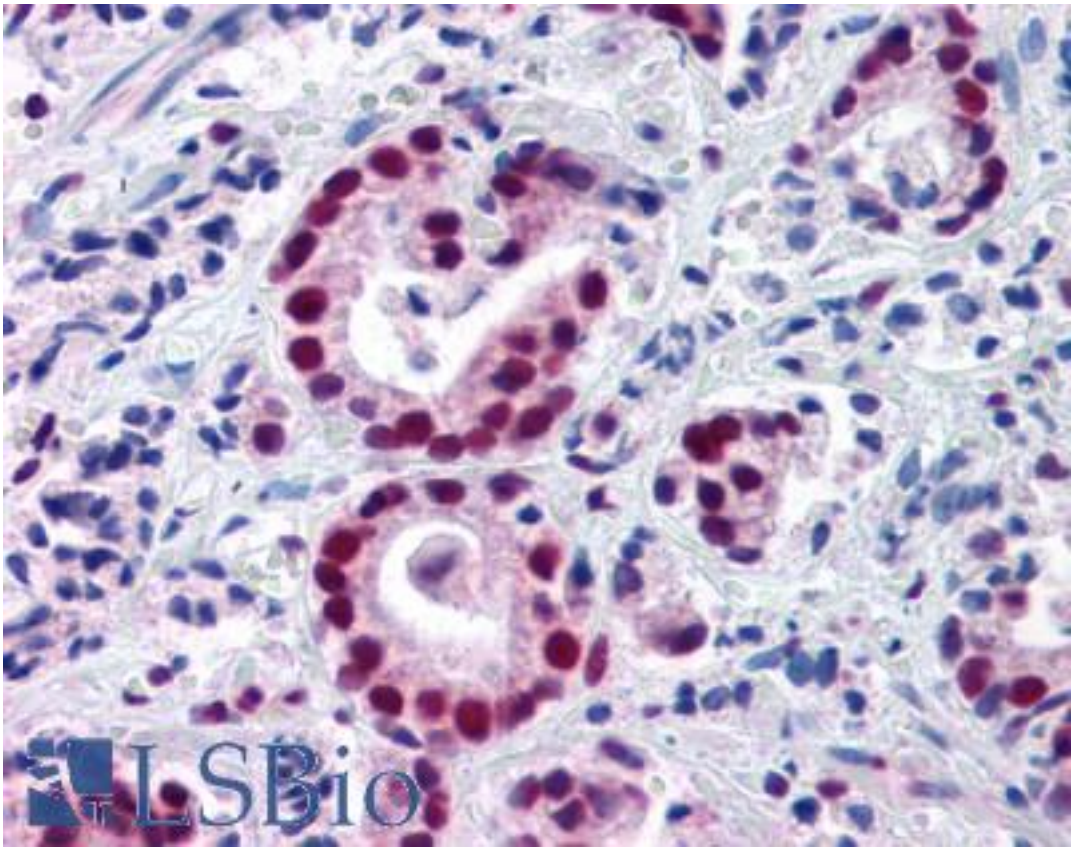
LSBio
LifeSpan BioSciences, Inc.

HDAC1 Rabbit anti-Human Polyclonal (aa466-482) Antibody - LS-B34 - LSBio

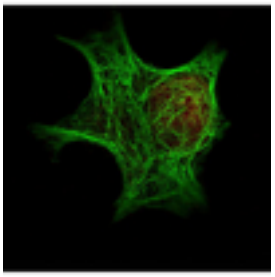
CatalogID:	LS-B34
Validation:	This antibody replaces catalog number LS-C18818. It has been validated for use in the following assays: IHC.
Target:	histone deacetylase 1 (HDAC1)
Synonyms:	HDAC1 Antibody, Histone deacetylase 1 Antibody, GON-10 Antibody, HD1 Antibody, RPD3 Antibody, RPD3L1 Antibody
Family / Subfamily:	Histone Deacetylase / not assigned-Histone Deacetylase
Host	HDAC1 antibody was produced in Rabbit
Clonality:	Polyclonal
Immunogen Species:	HDAC1 antibody was raised against Human
Antigen Type:	Synthetic peptide
Immunogen:	HDAC1 antibody was raised against synthetic peptide from human HDAC1.
Specificity:	Amino acids 466-482 of Human HDAC-1
Epitope:	aa466-482
Reactivity:	Human
Purification:	Immunoaffinity purified
Presentation:	0.02 M potassium phosphate, 0.15 M sodium chloride, pH 7.2, 0.01% sodium azide.
Recommended Storage:	+4°C or -20°C, Avoid repeated freezing and thawing.
Usage Summary:	Immunohistochemistry: LS-B34 was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen. The stained slides were evaluated by a pathologist to confirm staining specificity. The optimal working concentration for LS-B34 was determined to be 20 ug/ml.
Uses:	IHC - Paraffin (20 µg/ml), Immunofluorescence (1:200 - 1:1000), Western blot (1:1000 - 1:5000), ELISA (1:10000 - 1:50000) (Optimal dilution to be determined by the researcher)
Size:	50 µg
Concentration:	1 mg/ml

Immunohistochemistry Image:



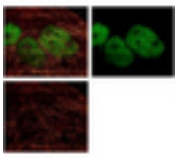
Anti-HDAC1 antibody IHC of human prostate carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody LS-B34 concentration 20 ug/ml.

Immunofluorescence Image:



Anti-HDAC-1 polyclonal antibody-Immunofluorescence Microscopy. polyclonal Anti-HDAC-1 antibody (LS-B34) was used with Atto 425 Anti-Rabbit IgG (shown in red) for to detect HDAC-1 by immunofluorescence. Anti-Keratin monoclonal antibody was used with Dylight 488 goat anti-mouse shown in green) to detect Keratin by Immunofluorescence. Data was collected on a STED-CW TCS-SP5 Confocal system (Leica Microsystems) equipped with a DFC 350FX Camera allowing sequential acquisition in wide-field, confocal and STED CW imaging modes and provided courtesy of: Myriam Gastard, PhD, personal communication, Leica Microsystems, Inc. USA.

Immunofluorescence Image:

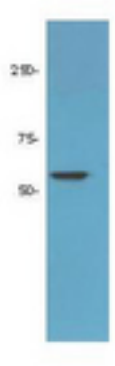


Immunofluorescence Microscopy - HDAC Antibody. Histone deacetylase (HDAC) antibody detects HDAC (colored GREEN) as used in STED immunofluorescence microscopy. Methanol fixed A431 cells were blocked with normal goat serum. The cells were then probed with 0.4 ug/mL final concentration of anti-HDAC and detected with 0.2 ug/mL DyLight488 conjugated Anti-RABBIT IgG [GOAT] secondary antibody. Also shown in this 2-color STED image is an anti-tubulin monoclonal antibody [MOUSE] (detected with ATTO 425 conjugated anti-MOUSE IgG [GOAT] (secondary antibody (colored RED).

Western Blot Image:

Anti-HDAC-1 Antibody - Western Blot. Western blot of Affinity Purified anti-HDAC-1 antibody shows detection of a band at ~65 kD corresponding to human HDAC1 present in a 293 whole cell lysate (arrowhead). Approximately 35 ug of lysate was separated on a 4-20% Tris-HEPES gel by SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1:1350. Reaction occurred 2 h at room temperature followed by washes and reaction with a 1:10000 dilution of IRDye800 conjugated Rb-a-Goat IgG [H&L] MXHu (for 45 min at room temperature. IRDye800 fluorescence image was captured using the Odyssey Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

Western Blot Image:



Anti-HDAC-1 Antibody - Western Blot. p/n LS-B34 was used for Western blot of LNCaP prostate cancer cells. Lysate was loaded at 50 ug per lane and incubated with 1:1000 dilution of primary Ab (Lot. 16248). A band was detected at the expected molecular weight of 55 Kda. Personal communication Flavio Rizzolio, Temple University.

Requested From:	Japan