

Product datasheet

Anti-HDAC6 antibody [EPR22951-29] ab239362

Recombinant RabMAb

7 Images

Overview

Product name	Anti-HDAC6 antibody [EPR22951-29]
Description	Rabbit monoclonal [EPR22951-29] to HDAC6
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IP Unsuitable for: ICC/IF or IHC-P
Species reactivity	Reacts with: Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Mouse and rat brain lysate. NIH/3T3, Neuro-2a and PC-12 lysates. Flow Cyt (intra): Neuro-2a and NIH/3T3 cells. IP: Mouse brain lysate and NIH/3T3 lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22951-29

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab239362 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/600.
WB		1/1000. Predicted molecular weight: 131 kDa.
IP		1/30.

Application notes

Is unsuitable for ICC/IF or IHC-P.

Target

Function

Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes (By similarity). Plays a central role in microtubule-dependent cell motility via deacetylation of tubulin.

Sequence similarities

Belongs to the histone deacetylase family. HD type 2 subfamily.
Contains 1 UBP-type zinc finger.

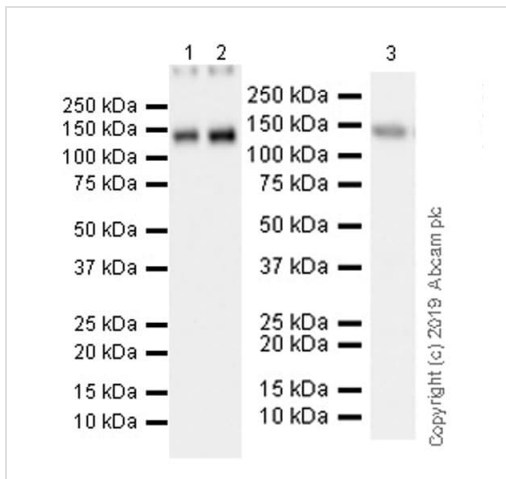
Post-translational modifications

Ubiquitinated. Its polyubiquitination however does not lead to its degradation.
Sumoylated in vitro.

Cellular localization

Nucleus. Cytoplasm. It is mainly cytoplasmic, where it is associated with microtubules.

Images



Western blot - Anti-HDAC6 antibody [EPR22951-29] (ab239362)

All lanes : Anti-HDAC6 antibody [EPR22951-29] (ab239362) at 1/1000 dilution

Lane 1 : NIH/3T3 (mouse embryonic fibroblast), whole cell lysate

Lane 2 : Neuro-2a (mouse neuroblastoma neuroblast), whole cell lysate

Lane 3 : PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

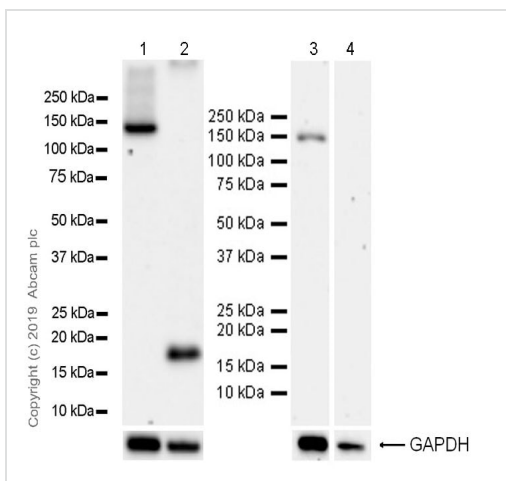
Predicted band size: 131 kDa

Observed band size: 130 kDa

Blocking and diluting buffer and concentration: 5% NFDm/TBST.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 18180281, 29201907, 28273454, 25108026).

Exposure time: Lane 1-2: 32 seconds Lane 3: 3 minutes.



Western blot - Anti-HDAC6 antibody [EPR22951-29] (ab239362)

All lanes : Anti-HDAC6 antibody [EPR22951-29] (ab239362) at 1/1000 dilution

Lane 1 : Mouse brain tissue lysate

Lane 2 : Mouse kidney tissue lysate

Lane 3 : Rat brain tissue lysate

Lane 4 : Rat kidney tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 131 kDa

Observed band size: 130 kDa

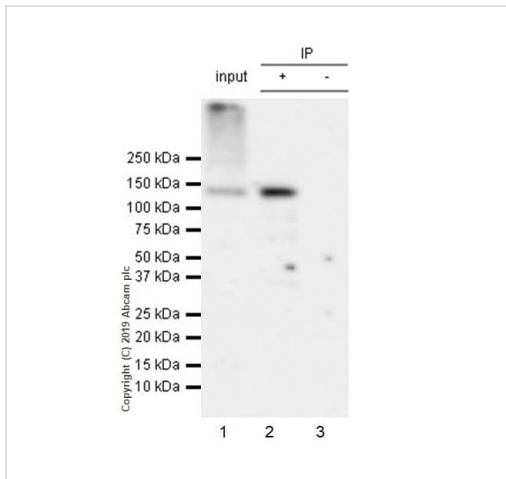
Blocking and diluting buffer and concentration: 5% NFDm/TBST.

Kidney is a low-expression tissue.

A positive unidentified band between 15-20 kDa is detected in mouse kidney lysate.

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 18180281, 29201907, 28273454, 25108026).

Exposure time: 48 seconds.



Immunoprecipitation - Anti-HDAC6 antibody
[EPR22951-29] (ab239362)

HDAC6 was immunoprecipitated from 0.35 mg NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate 10µg with ab239362 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab239362 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/5000 dilution.

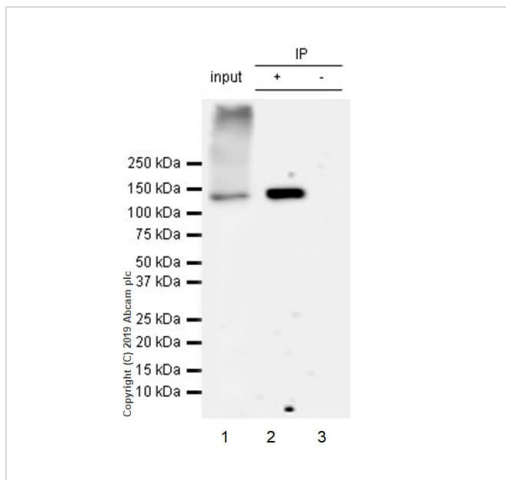
Lane 1: NIH/3T3 whole cell lysate 10µg

Lane 2: ab239362 IP in NIH/3T3 whole cell lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab239362 in NIH/3T3 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 30 seconds.



Immunoprecipitation - Anti-HDAC6 antibody
[EPR22951-29] (ab239362)

HDAC6 was immunoprecipitated from 0.35 mg mouse brain lysate 10µg with ab239362 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab239362 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/5000 dilution.

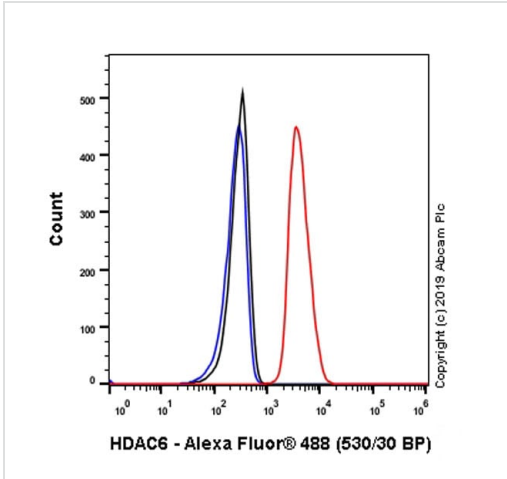
Lane 1: Mouse brain lysate 10µg

Lane 2: ab239362 IP in mouse brain lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab239362 in mouse brain lysate

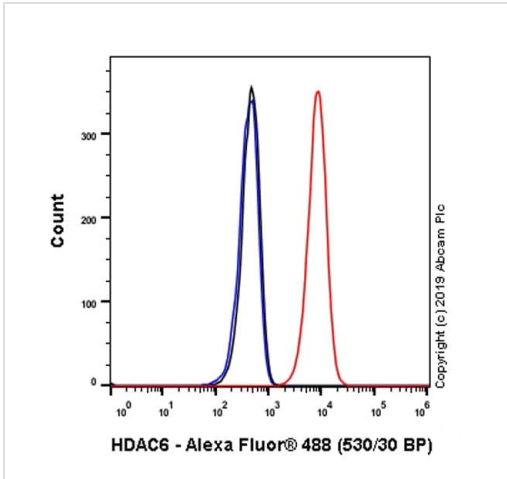
Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 mins.



Flow Cytometry (Intracellular) - Anti-HDAC6 antibody
[EPR22951-29] (ab239362)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized NIH/3T3 (Mouse embryonic fibroblast) cells labeling HDAC6 with ab239362 at 1\600 (Red) compared with a Rabbit monoclonal IgG (**ab172730**) / Black isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 was used as the secondary antibody.



Flow Cytometry (Intracellular) - Anti-HDAC6 antibody
[EPR22951-29] (ab239362)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Neuro-2a (Mouse neuroblastoma neuroblast) cells labeling HDAC6 with ab239362 at 1\600 (Red) compared with a Rabbit monoclonal IgG (**ab172730**) / Black isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 was used as the secondary antibody.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-HDAC6 antibody [EPR22951-29] (ab239362)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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