

Datasheet for ABIN7013923

**anti-HDAC6 antibody****3** Images[Go to Product page](#)

## Overview

Quantity:	0.1 mg
Target:	HDAC6
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HDAC6 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC)

## Product Details

Immunogen:	human HDAC6
Clone:	3D2
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody 3D2 recognizes D2 domain of human histone deacetylase 6 (HDAC6, intracellular antigen), amino acids 471-481.
No Cross-Reactivity:	Mouse, Zebrafish (Danio rerio)
Purification:	Purified by protein-A affinity chromatography.

## Target Details

Target:	HDAC6
Alternative Name:	HDAC6 ( <a href="#">HDAC6 Products</a> )

## Target Details

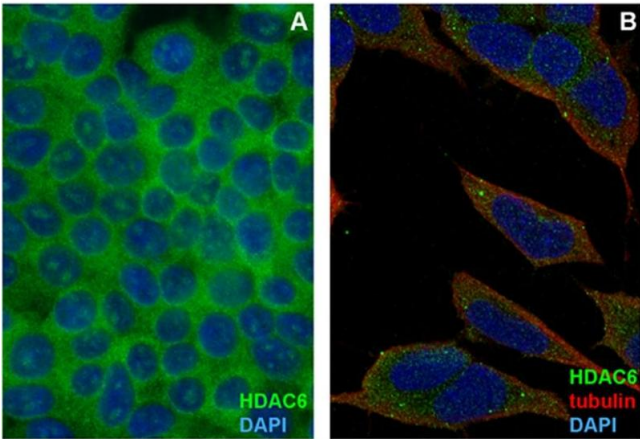
Background:	Histone deacetylase 6,Histone deacetylase 6 (HDAC6), like other histone deacetylases, affects gene expression by regulation of chromatin remodeling. HDAC6 contains an internal duplication of two catalytic domains which appear to function independently of each other. Besides histones, HDAC6 deacetylates also other substrates including alpha tubulin and HSP90 alpha, and is involved in protein trafficking and degradation, as well as in affecting of cell shape and migration. Deregulation of HDAC6 expression and activity is associated with many diseases.,Histone deacetylase 6
Gene ID:	10013
UniProt:	<a href="#">Q9NSW6</a>
Pathways:	<a href="#">Intracellular Steroid Hormone Receptor Signaling Pathway</a> , <a href="#">Regulation of Intracellular Steroid Hormone Receptor Signaling</a>

## Application Details

Application Notes:	Western blotting: Recommended dilution: 1-5 µg/mL. Immunocytochemistry: Recommended dilution: 5-10 µg/mL.
Restrictions:	For Research Use only

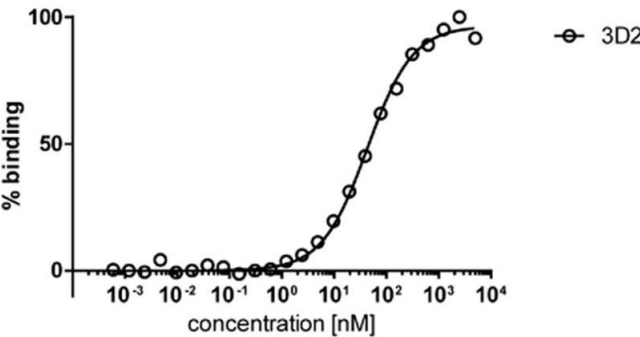
## Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.



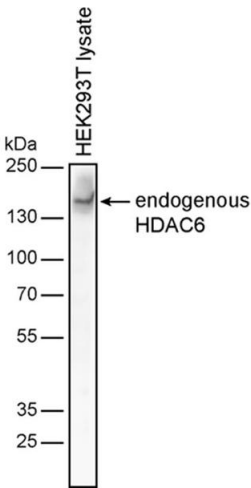
### Immunocytochemistry

**Image 1.** Immunocytochemistry staining of HDAC6 in formaldehyde-fixed and Triton-permeabilized HEK-293T cells (A) and SH-SY5Y cells (B) by mouse monoclonal antibody 3D2, followed by anti-mouse Alexa Fluor 488 (green), DNA indicated by DAPI (blue). In SH-SY5Y cells tubulin was stained by a rabbit polyclonal antibody, followed by anti-rabbit Alexa Fluor 647 (red, colocalization yellow).



### ELISA

**Image 2.** ELISA analysis of human HDAC6 by mouse monoclonal antibody 3D2. MaxiSorp plate was coated with recombinant human HDAC6, then blocked with BSA, and exposed to dilution series of anti-HDAC6 primary antibody, followed by HRP-conjugated anti-mouse secondary antibody, and colorimetric signal of processed OPD substrate was measured at 492 nm.



### Western Blotting

**Image 3.** Western blotting analysis of human HDAC6 by mouse monoclonal antibody 3D2 in HEK-293T cell line under reducing conditions. PVDF membrane was blocked in 5 % milk, and incubated with primary antibody (1  $\mu$ g/mL), followed by HRP-conjugated anti-mouse secondary antibody.