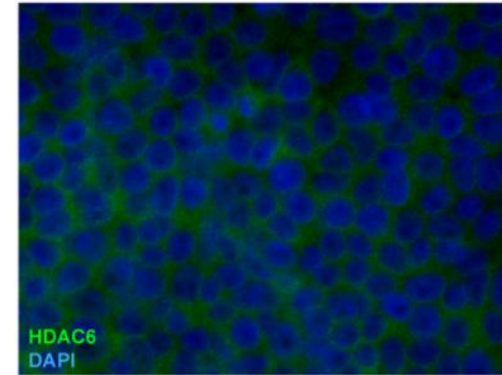


Anti-HDAC6 Monoclonal Antibody (D1 domain-specific)

CATALOG NO:	A1485-100
AMOUNT:	100 µg
ALTERNATE NAME:	KIAA0901, JM21, HD6, HDAC6-D1
ISOTYPE / FORMAT:	Mouse IgG
CLONALITY:	Monoclonal
CLONE:	2H3
IMMUNOGEN:	Human Histone deacetylase 6 (HDAC6; sequence NP_006035.2, UniProtKB - Q9UBN7)
SPECIES REACTIVITY:	Human
FORM:	Liquid
SPECIFICITY:	The antibody detects epitope in D1 domain of HDAC6 (region AA 281-291)
PURIFICATION:	Affinity purified from hybridoma culture supernatant (Protein A)
FORMULATION:	1 mg/ml in PBS, pH 7.4, 0.02% sodium azide
STORAGE CONDITIONS:	Store at -20 °C for long term storage, 4 °C for short term storage, avoid repeated freezing/thawing cycles
DESCRIPTION:	The affinity purified mouse monoclonal antibody is immunospecific for the D1 domain of human histone deacetylase 6 (HDAC6) as determined by ELISA and peptide library screening. HDAC6 belongs to the class II of the histone deacetylase family (EC 3.5.1.98). The protein of molecular mass 131 kDa consists of two catalytic domains, the serine-glutamate-rich SE14 domain and the ubiquitin-binding ZnF domain. HDAC6 shuttles between the nucleus and the cytoplasm, but its localization is predominantly cytoplasmic. The enzyme deacetylates various substrates including α-tubulin, HSP90, cortactin, histones and other proteins. Described protein plays an important role in microtubule-dependent cell motility, apoptosis, cell signaling and transcriptional regulation, protein degradation, immune response and DNA repair. HDAC6 is linked to several neuronal diseases and carcinogenesis.
APPLICATION:	<i>ELISA:</i> 1 – 10µg/ml; <i>Immunocytochemistry:</i> 10 – 50 µg/ml <i>(Please note that working concentration should be optimized for each technique by each laboratory)</i>



immunocytochemistry

Detection of human endogenous HDAC6 by anti-HDAC6-D1 mAb (25 µg/ml ON) in formaldehyde-fixed and Triton-permeabilized HEK293T cells. Coverslips were incubated with anti-mouse Ab conjugated to AlexaFluor488. Slides were counterstained with DAPI.

RELATED PRODUCTS:

- HDAC6 Activity Assay kit (**Cat. No. K466-100**)
- HDAC6 Inhibitor Screening kit (**Cat. No. K465-100**)
- HDAC Activity Fluorometric Assay Kit (**Cat. No. K330-100**)
- HDAC Activity Colorimetric Assay Kit (**Cat. No. K331-100**)
- HDAC Inhibitor Drug Screening Kit (**Cat. No. K340-100**)
- InSitu HDAC Activity Fluorometric Assay Kit (**Cat. No. K339-100**)
- HDAC6, human recombinant (**Cat. No. 7534-10**)
- HDAC6 Antibody (**Cat. No. 3606-30T, -100**)
- Tubacin (**Cat. No. 1984-250, -1000**)
- Citarinostat (**Cat. No. B1560-5, -25**)
- Tubastatin A (**Cat. No. 1724-1, -5**)
- ACY-775 (**Cat. No. B2011-5, -25**)

FOR RESEARCH USE ONLY! Not to be used on humans.