Anti-HDAC6 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013987

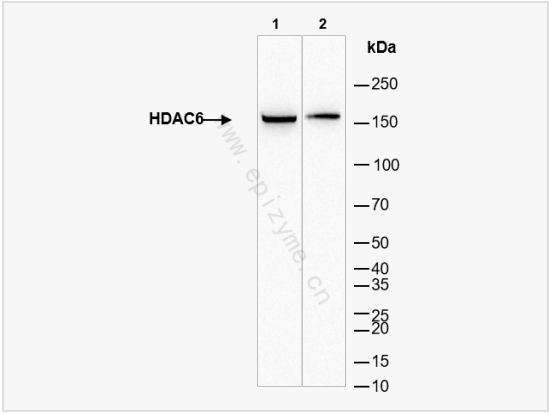
Product Information

Application	IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA, WB
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	15B26D52
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human HDAC6
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-HDAC6 Rabbit mAb [15B26D52] is for research use only and not for use in diagnostic or therapeutic procedures.

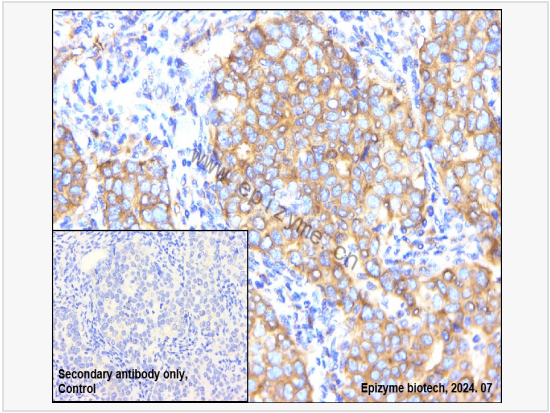
Protein Information

Synonyms	CPBHM, FLJ16239, HD 6, HD6, HDAC 6, HDAC6, HDAC6_HUMAN, Histone deacetylase 6 (HD6), Histone deacetylase 6, JM 21, JM21, KIAA0901, OTTHUMP00000032398, OTTHUMP00000197663, PPP1R90, Protein phosphatase 1 regulatory subunit 90.
Calculated MW	Calculated MW: 131 kDa; Observed MW: 160 kDa
Uniprot ID	Q9UBN7
Gene ID	10013
Background	Involved in the regulation of many cellular processes, including cell migration, immune synapse formation, viral infection, and degradation of misfolded proteins. HDAC6 binds to both poly-ubiquitinated misfolded proteins and dynein motors, facilitating the transport of misfolded proteins to the aggresome. Required for subsequent recruitment of the autophagic machinery and clearance of aggresomes from the cell. Plays a key role in the protection against the deleterious effects of pathological protein aggregation that occurs in various diseases.
Cellular Location	Nucleus. Cytoplasm. It is mainly cytoplasmic, where it is associated with microtubules.

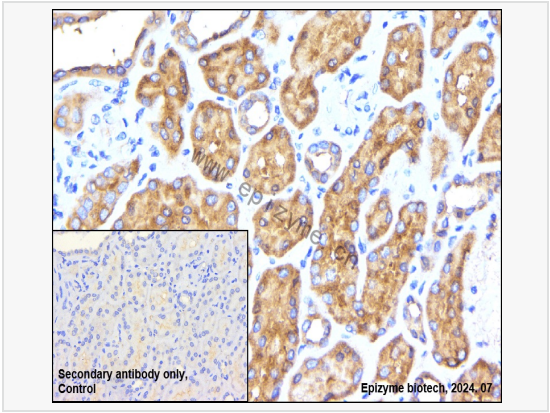
Validation Images



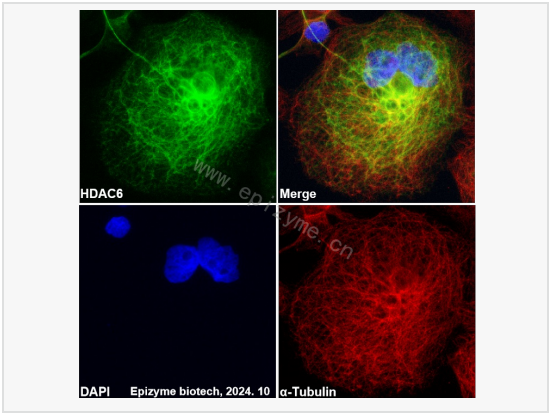
Western Blot - Anti-HDAC6 Rabbit mAb [15B26D52]
All lanes: R013987 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 131 kDa
Observed band size: 160 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-HDAC6 Rabbit mAb [15B26D52]
Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013987 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-HDAC6 Rabbit mAb [15B26D52]
Sample: Paraformaldehyde-fixed, paraffin embedded human renal carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013987 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-HDAC6 Rabbit mAb [15B26D52]
Sample: A431 cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013987 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).