

Active Recombinant Human HDAC6 protein, His-tagged

Cat. No. HDAC6-131H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human HDAC6 protein(Q9UBN7)(166-348 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	166-348 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Histone Deacetylase 6 (HDAC6) belongs to class II of the histone deacetylase/acuc/apha family. It contains an internal duplication of two catalytic domains that appear to function independently of each other. This protein possesses histone deacetylase activity and represses transcription. HDAC6 also affects transcription and translation by regulating the heat-shock protein 90 (Hsp90) and stress granules (SGs), respectively. Besides, Sirtuin 2 (SIRT2) has been identified as an interactor of HDAC6, thus a binding ELISA assay was conducted to detect the interaction of recombinant human HDAC6 and recombinant human SIRT2. Briefly, HDAC6 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100µl were then transferred to SIRT2-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-HDAC6 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate

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solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μ stop solution to the wells and read at 450nm immediately. The binding activity of HDAC6 and SIRT2 was shown, and this effect was in a dose dependent manner.

Molecular Mass	21.7kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	> 95%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	HDAC6 histone deacetylase 6 [Homo sapiens]
Official Symbol	HDAC6
Synonyms	HDAC6; histone deacetylase 6; FLJ16239; HD6; JM21; KIAA0901;
Gene ID	10013
mRNA Refseq	NM_006044
Protein Refseq	NP_006035
MIM	300272

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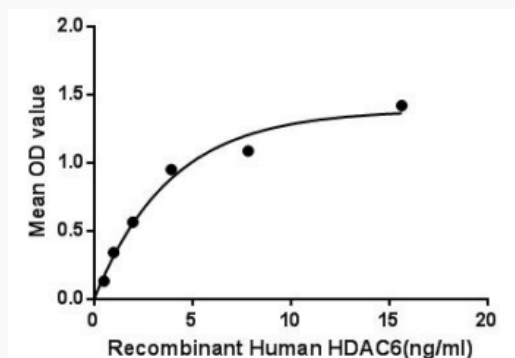
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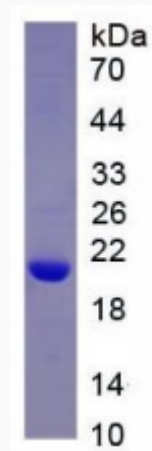
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Activity



SDS-PAGE



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