

Anti-HDAC8 Antibody [SD082-07]

ET1612-90



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, FC, IP
Molecular Wt:	Predicted band size: 42 kDa
Clone number:	SD082-07

Description: Histone deacetylase 8 is an enzyme that in humans is encoded by the HDAC8 gene. Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation / deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to class I of the histone deacetylase/acuc/apha family. It has histone deacetylase activity and represses transcription when tethered to a promoter. Histone deacetylase 8 is involved in skull morphogenesis and metabolic control of the ERR-alpha / PGC1-alpha transcriptional complex. HDAC8 has been linked to number of disease states notably to acute myeloid leukemia and is related to actin cytoskeleton in smooth muscle cells. siRNA targeting HDAC8 showed anticancer effects. Inhibition of HDAC8 induced apoptosis has been observed in T cell lymphomas. In addition the HDAC8 enzyme has been implicated in the pathogenesis of neuroblastoma.

Immunogen: Synthetic peptide within Human HDAC8 aa 61-110 / 377.

Positive control: K562 cell lysate, Hela cell lysate, K562.

Subcellular location: Nucleus, Cytoplasm.

Database links: SwissProt: Q9BY41 Human | Q8VH37 Mouse | B1WC68 Rat

Recommended Dilutions:

WB	1:500-1:2,000
FC	1:50-1:100
IP	Use at an assay dependent concentration.

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

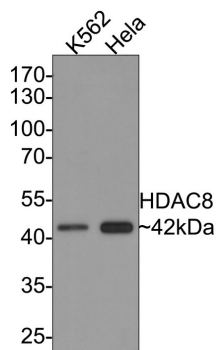
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Images

Fig1: Western blot analysis of HDAC8 on different lysates with Rabbit anti-HDAC8 antibody (ET1612-90) at 1/500 dilution.

Lane 1: K562 cell lysate

Lane 2: Hela cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 42 kDa

Observed band size: 42 kDa

Exposure time: 1 minute;

10% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1612-90) at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.

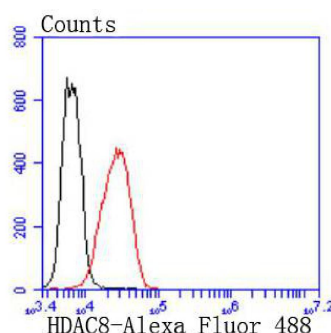


Fig2: Flow cytometric analysis of HDAC8 was done on K562 cells.

The cells were fixed, permeabilized and stained with the primary antibody (ET1612-90, 1/50) (red). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

- Deng, H. et al. 2016. Protective effect of Ac-SDKP on alveolar epithelial cells through inhibition of EMT via TGF-β1/ROCK1 pathway in silicosis in rat. *Toxicol. Appl. Pharmacol.* 294: 1-10.
- Lv, W. et al. 2014. Histone deacetylase 1 and 3 regulate the mesodermal lineage commitment of mouse embryonic stem cells. *PloS one.* 9: e113262.

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