

## Recombinant Human HDAC2 protein, His-tagged

**Cat. No.** HDAC2-13708H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human HDAC2(NP_001518.3)(Met1~Pro488), fused with N-terminal His Tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | Met1~Pro488                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | This gene product belongs to the histone deacetylase family. Histone deacetylases act via the formation of large multiprotein complexes, and are responsible for the deacetylation of lysine residues at the N-terminal regions of core histones (H2A, H2B, H3 and H4). This protein forms transcriptional repressor complexes by associating with many different proteins, including YY1, a mammalian zinc-finger transcription factor. Thus, it plays an important role in transcriptional regulation, cell cycle progression and developmental events. Alternative splicing results in multiple transcript variants. |
| <b>Form</b>             | 20mM Tris, 150mM NaCl, pH8.0, containing 0.01% SKL, 5% Trehalose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 60kDa as determined by SDS-PAGE reducing conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MAYSQGGGKKKVCYYYDGDIGNYYYGQGHMPKPHRIRMTHNLLNLYGLYRKMEIY<br>RPHKATAEEMTKYHSDEYIKFLRSIRPDNMSEYSKQMQRFNVGEDCPVFDGLFEFC<br>QLSTGGSVAGAVKLNRRQQTDMAVNWAGGLHHAKKSEASGFCYVNDIVLAILELLKY                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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HQRVLYIDIDIHHGDGVVEAFYTTDRVMTVSFHKYGEYFPGTGDLRDIGAGKGKYYA  
 VNFPMRDGIIDDESYGQIFKPIISKVMEMYQPSAVVLQCGADSLSGDRLGCFNLTVKG  
 HAKCVEVVKTFNLPLLMLGGGGYTIRNVARCWYETAVALDCEIPNELPYNDYFEYF  
 GPDFKLHISPSNMTNQNTPEYMEKIKQRLFENLRMLPHAPGVQMQAIPEDAVHEDS  
 GDEDGEDPDKRISIRASDKRIACDEEFSDSEDEGEGERNRVADHKKGAKKARIEED  
 KKETEDKKTDVKEEDKSKDNSGEKTDTKGTKSEQLSNP

|                       |                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | < 1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>         | > 90%                                                                                                                                                                                                                                                                                                                               |
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.<br>If bio-activity of the protein is needed, please check active protein.                                                                                                                                                                                                                |
| <b>Notes</b>          | The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.                                                                                                                                                                             |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                          |
| <b>Concentration</b>  | 200g/mL                                                                                                                                                                                                                                                                                                                             |
| <b>Reconstitution</b> | Reconstitute in ddH <sub>2</sub> O to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                              |

## GENE INFORMATION

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|                        |                                                      |
|------------------------|------------------------------------------------------|
| <b>Gene Name</b>       | HDAC2 histone deacetylase 2 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | HDAC2                                                |
| <b>Synonyms</b>        | HD2; RPD3; YAF1; KDAC2                               |
| <b>Gene ID</b>         | 3066                                                 |
| <b>mRNA Refseq</b>     | NM_001527.4                                          |
| <b>Protein Refseq</b>  | NP_001518.3                                          |
| <b>MIM</b>             | 605164                                               |
| <b>UniProt ID</b>      | Q92769                                               |

**SDS-PAGE of  
HDAC2-13708H**

