

## Recombinant Human HDAC5 Protein, GST-tagged

**Cat. No.** HDAC5-4647H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human HDAC5 partial ORF ( AAH51824, 330 a.a. - 429 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | 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 the class II histone deacetylase/acuc/apha family. It possesses histone deacetylase activity and represses transcription when tethered to a promoter. It coimmunoprecipitates only with HDAC3 family member and might form multicomplex proteins. It also interacts with myocyte enhancer factor-2 (MEF2) proteins, resulting in repression of MEF2-dependent genes. This gene is thought to be associated with colon cancer. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 36.63 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | AENGFTGSVPNIPTMLPQHRALPLDSSPNQFSLYTSPSLPNISLGLQATVTVTNSHL<br>TASPKLSTQQEAERQALQSLRQGGTLTGKFMSTSSIPGCLLG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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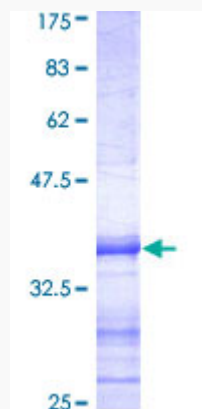
|                         |                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------|
|                         | Antibody Production<br>Protein Array                                                      |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                    |
| <b>Storage</b>          | Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.                   |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                  |
| <b>GENE INFORMATION</b> |                                                                                           |
| <b>Gene Name</b>        | HDAC5 histone deacetylase 5 [ Homo sapiens ]                                              |
| <b>Official Symbol</b>  | HDAC5                                                                                     |
| <b>Synonyms</b>         | HDAC5; histone deacetylase 5; FLJ90614; KIAA0600; NY CO 9; antigen NY-CO-9; HD5; NY-CO-9; |
| <b>Gene ID</b>          | 10014                                                                                     |
| <b>mRNA Refseq</b>      | NM_001015053                                                                              |
| <b>Protein Refseq</b>   | NP_001015053                                                                              |
| <b>MIM</b>              | 605315                                                                                    |
| <b>UniProt ID</b>       | Q9UQL6                                                                                    |

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**Quality Control  
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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