

## Recombinant Human KDM5A

**Cat. No.** KDM5A-29894TH    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant fragment of Human KDM5A / Jarid1A / RBBP2 with proprietary tag, 36.63kDa.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>              | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>       | 100 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>         | The protein encoded by this gene is a ubiquitously expressed nuclear protein. It binds directly, with several other proteins, to retinoblastoma protein which regulates cell proliferation. This protein also interacts with rhombotin-2 which functions distinctly in erythropoiesis and in T-cell leukemogenesis. Rhombotin-2 is thought to either directly affect the activity of the encoded protein or may indirectly modulate the functions of the retinoblastoma protein by binding to this protein. |
| <b>Molecular Weight</b>    | 36.630kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Biological activity</b> | useful for Antibody Production and Protein Array                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Form</b>                | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>              | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage buffer</b>      | pH: 8.00Constituents:0.31% Glutathione, 0.79% Tris HClNote: Glutathione is reduced                                                                                                                                                                                                                                                                                                                                                                                                                          |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                                 |                                                                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                               |
| <b>Sequences of amino acids</b> | KVEPEVLSTDTQTSPEPGTRMNILPKRTRRVKTQSESGDVSRNTELKKLQIFGAGPK<br>VVGLAMGTDKDEDEVTRRRKVTNRSDAFNMQMRQRKGTLSVNF                                                |
| <b>Sequence Similarities</b>    | Belongs to the JARID1 histone demethylase family.Contains 1 ARID domain.Contains 1 JmjC domain.Contains 1 JmjN domain.Contains 3 PHD-type zinc fingers. |

## GENE INFORMATION

|                            |                                                                                                                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | KDM5A lysine (K)-specific demethylase 5A [ Homo sapiens ]                                                                                                                                                                   |
| <b>Official Symbol</b>     | KDM5A                                                                                                                                                                                                                       |
| <b>Synonyms</b>            | KDM5A; lysine (K)-specific demethylase 5A; JARID1A, jumonji, AT rich interactive domain 1A , Jumonji, AT rich interactive domain 1A (RBBP2 like) , RBBP2, retinoblastoma binding protein 2; lysine-specific demethylase 5A; |
| <b>Gene ID</b>             | 5927                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | NM_001042603                                                                                                                                                                                                                |
| <b>Protein Refseq</b>      | NP_001036068                                                                                                                                                                                                                |
| <b>MIM</b>                 | 180202                                                                                                                                                                                                                      |
| <b>Uniprot ID</b>          | P29375                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 12p11                                                                                                                                                                                                                       |

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**Function**

DNA binding; chromatin binding; metal ion binding; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen in;

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