abcam

Product datasheet

Recombinant human KDM5A / Jarid1A / RBBP2 protein ab198108

2 Images

Description

Product name	Recombinant human KDM5A / Jarid1A / RBBP2 protein
Biological activity	Specific Activity: 0.027 pmole/min/µg Assay Conditions: 10 µl reaction mix containing assay buffer with 20 mM Tris (pH 7.4), 50 mM NaCl 500 µM α-ketoglutarate, 25 µM iron, 2 mM ascorbic acid, 0.01% Tween-20, 0.5 µM biotinylated peptide substrate, and ab198108 (80 – 400 ng) added to the wells. Add antibody against demethylated K4 peptide. Incubate for 30 min, then Streptavidin-conjugated secondary antibody followed by Alpha Screening detection.
Purity	>= 70 % SDS-PAGE. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	P29375
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MAGVGPGGYAAEFVPPPECPVFEPSWEEFTDPLSFIGRI RPLAEKTGICK IRPPKDWQPPFACEVKSFRFTPRVQRLNELEAMTRVRLD FLDQLAKFWEL QGSTLKIPVVERKILDLYALSKIVASKGGFEMVTKEKKWSK VGSRLGYLP GKGTGSLLKSHYERILYPYELFQSGVSLMGVQMPNLDLKE KVEPEVLSTD TQTSPEPGTRMNILPKRTRRVKTQSESGDVSRNTELKKLQI FGAGPKVVG LAMGTKDKEDEVTRRRKVTNRSDAFNMQMRQRKGTLSV NFVDLYVCMFCG RGNNEDKLLLCDGCDDSYHTFCLIPPLPDVPKGDWRCPK CVAEECSKPRE AFGFEQAVREYTLQSFGEMADNFKSDYFNMPVHMVPTEL VEKEFWRLVSS IEEDVIVEYGADISSKDFGSGFPVKDGRRKILPEEEEYALS

GWNLNNMPV
LEQSVLAHINVDISGMKVPWLYVGMCFSSFCWHIEDHWS
YSINYLHWGEP
KTWYGVPSHAAEQLEEVMRELAPELFESQPDLLHQLVTI
MNPNVLMEHGV
PVYRTNQCAGEFVVTFPRAYHSGFNQGYNFAEAVNFCTA
DWLPIGRQCVN
HYRRLRRHCVFSHEELIFKMAADPECLDVGLAAMVCKEL
TLMTEEETRLR
ESVVQMGVLMSEEEVFELVPDDERQCSACRTTCFLSALT
CSCNPERLVCL
YHPTDLCPCPMQKKCLRYRYPLEDLPSLLYGVKVRAQSY
DTWVSRVTEAL
SANFNHKKDLIELRVMLEDAEDRKYPENDLFRKLRDAVKE
AETCASVAQL
LLSKKQKHRQSPDSGRTRTKLTVEELKAFVQQLFSLPCVI
SQARQVKNLL
DDVEEFHERAQEAMMDETPDSSKLQMLIDMGSSLYVELP
ELPRLKQELQQ
ARWLDEVRLTLSDPQQVTLDVMKKLIDSGVGLAPHHAVE
KAMAELQELLT
VSERWEEKAKVCLQARPRHSVASLESIVNEAKNIPAFLPN
VLSLKEALQK
AREWTAKVEAIQSGSNYAYLEQLESLSAKGRPIPVRLEAL
PQVESQVAAA
RAWRERTGRTFLKKNSSHTLLQVLSPRTDIGVYGSGKNRR

Predicted molecular weight	125 kDa including tags
Amino acids	1 to 1090
Tags	DDDDK tag C-Terminus
Additional sequence information	NM_001042603.

Specifications

Our **Abpromise guarantee** covers the use of **ab198108** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE
Form	Liquid

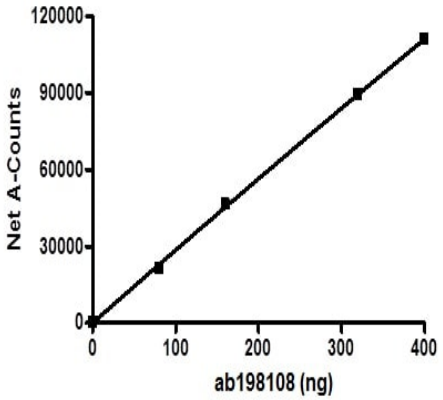
Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 20% Glycerol (glycerin, glycerine), 0.05% (R*,R*)-1,4-Dimercaptobutan-2,3-diol 80 µg/ml DDDDK peptide This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

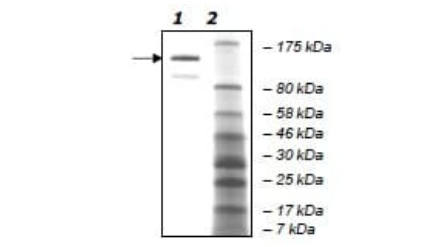
Function	Histone demethylase that specifically demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-9', H3 'Lys-27', H3 'Lys-36', H3 'Lys-79' or H4 'Lys-20'. Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-4'. May stimulate transcription mediated by nuclear receptors. May be involved in transcriptional regulation of Hox proteins during cell differentiation. May participate in transcriptional repression of cytokines such as CXCL12.
Sequence similarities	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.
Domain	The GSGFP motif is required for the interaction with SUZ12.
Cellular localization	Nucleus > nucleolus. Occupies promoters of genes involved in RNA metabolism and mitochondrial function.

Images



Functional Studies - Recombinant human KDM5A / Jarid1A / RBBP2 protein (ab198108)

Specific activity assay of ab198108.



SDS-PAGE - Recombinant human KDM5A / Jarid1A / RBBP2 protein (ab198108)

4-20% SDS-PAGE analysis of ab198108.

Lane 1: 2.1 µg ab198108

Lane 2: Protein marker

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