

Datasheet for ABIN1589770 **KDM5D Protein (His tag)**



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Overview

Quantity:	25 µg
Target:	KDM5D
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM5D protein is labelled with His tag.

Product Details

Sequence:	ALLVALQRLP VRLPEGEALQ CLTERAIGWQ DRARKALASE DVTALLRQLA ELRQQLQAKP RPEEASVYTS ATACDPIREG SGNNISKVQG LLENGDSVTS PENMAPGKGS DLELLSLLP QLTGPVLELP EAIRAPLEEL MMEGDLLEVT LDENHSIWQL LQAGQPPDLR RIRTLLELEK FEHQGSRTSR RALERRRRRQ KVDQGRNVEN LVQQELQSKR ARSSGIMSQV GREEEHYQEK ADRENMFLTP STDHSPFLKG NQNSLQHKDS GSSAACPSLM PLLQLSYSDE QQLLEHHHHH H
Characteristics:	Length (AA): 301 Chromosomal location: Yq11, Yq11
Purity:	> 95 % by SDS-PAGE. Visualized by silver stain

Target Details

Target:	KDM5D
Alternative Name:	SMCY/JARID1D (KDM5D Products)
Background:	H-Y antigen is defined as a male histocompatibility antigen that causes rejection of male skin

Target Details

grafts by female recipients of the same inbred strain of rodents. Male-specific, or H-Y antigen(s), are also detected by cytotoxic T cells and antibodies. H-Y antigen appears to be an integral part of the membrane of most male cells. In addition, H-Y antibodies detect a soluble form of H-Y that is secreted by the testis. The gene (Smcy/SMCY) coding for H-Y antigen detected by T cells has been cloned. It is expressed ubiquitously in male mice and humans, and encodes an epitope that triggers a specific T-cell response in vitro. Additional epitopes coded for by different Y-chromosomal genes are probably required in vivo for the rejection of male grafts by female hosts. The molecular nature of H-Y antigen detected by antibodies on most male cells is not yet known. Testis-secreted, soluble H-Y antigen, however, was found to be identical to Müllerian-inhibiting substance (MIS). MIS cross-reacts with H-Y antibodies and identical findings were obtained for soluble H-Y antigen and MIS, i.e., secretion by testicular Sertoli and, to a lesser degree, ovarian cells, binding to a gonad-specific receptor, induction of gonadal sex reversal in vitro and, in cattle, in vivo. H-Y antisera also detect a molecule or molecules associated with the heterogametic sex in non-mammalian vertebrates. Molecular data on this antigen or antigens are not yet available.

Synonyms: KDM5D lysine (K)-specific demethylase 5D, HY, HYA

Molecular Weight:	33.87 kDa
NCBI Accession:	NM_001146705 , NP_001140177
UniProt:	Q9BY66
Pathways:	Warburg Effect

Application Details

Application Notes:	Not tested so far.
Comment:	Cytokines & Growth Factors
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	The lyophilized human SMCY is supplied in lyophilized form and can be reconstituted in PBS or water. This solution can be diluted into other buffered solutions or stored frozen for future use.
Buffer:	50 mM NaP, 300 mM NaCl, pH 8.0
Storage:	-20 °C/-80 °C

Handling

Storage Comment: The lyophilized human SMCY, though stable at room temperature, is best stored in working aliquots at -20 °C to -70 °C.