

AR60001PU-N

Human JARID1D (His-tag) - Purified

Alternate names:

H-Y, HY, HYA, Histocompatibility Y antigen, Histone demethylase JARID1D, Jumonji/ARID domain-containing protein 1D, KDM5D, Lysine-specific demethylase 5D, Protein SmcY, SMCY

Quantity:

25 µg

Background:

H-Y antigen is defined as a male histocompatibility antigen that causes rejection of male skin 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.

Uniprot ID:

[Q9BY66](#)

NCBI:

[NP_001140177.1](#)

GenelD:

[8284](#)

Species:

Human

Source:

E. coli

Format:

State: Lyophilized protein
Purity: >95% by SDS-PAGE and Silver staining
Buffer System: 50 mM NaP, 300 mM NaCl, pH 8.0
Stabilizers: None
Reconstitution: Restore in PBS or water.

Description:

Recombinant human JARID1D
Result by N-terminal sequencing: ALLVALQRLPVRLP
AA Sequence:
ALLVALQRLPVRLPEGEALQCLTERAIGWQDRARKALASEDVTALLRQLAELRQQLQAKPRPEEASVYTSAT
ACDPI
REGSGNNISKVQGLLENGDSVTSPENMAPGKGSDELLESSLPLQLTGPVLELPEAIRAPLEELMMEGDLLEV
TLDEN
HSIWQLLQAGQPPDLDRITLLELEKFEHQGSRTSRALERRRRRQKVDQGRNVENLVQQLQSKRARSSGI
MSQVG
REEEHYQEKADRENMFLLTPSTDHSPFLKGNQNSLQHKDSGSSAACPSLMPLQLLSYSDEQQLLEHHHHHHH

Add. Information:

Molecular weight: 33.87 kDa (301 amino acids)

mRNA RefSeq: NM_001146705.1

Storage:

Prior to reconstitution store at 2-8°C.

Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

1. Wolf U, Cytogenet Cell Genet 80:232 (1998). 2. Scott DM et al, J Mol Med (Berl) 75:103 (1997). 3. Müller U, Hum Genet 97(6):701 (1996). 4. Simpson e et al, Annu Rev Immunol 15:39 (1997).

Pictures:

SDS-PAGE analysis of recombinant human SMCY / JARID1D
Cat.-No. AR60001PU-N. Sample was loaded in 15% SDS-polyacrylamide gel under reducing conditions and stained with Coomassie blue.

