HORMAD1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HORMAD1, Polyclonal Antibody
Full Product Name	HORMAD1 Antibody; FITC conjugated
Product Gene Name	anti-HORMAD1 antibody
Product Synonym Names	HORMA domain-containing protein 1; Cancer/testis antigen 46; CT46; Newborn ovary HORMA protein; HORMAD1; NOHMA
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%,Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.
Matching Pairs	Unconjugated Antibody: HORMAD1 (MBS7002822) FITC Conjugated Antibody: HORMAD1 (MBS7000202)
Molecular Weight	36,676 Da
OMIM	609824
3D Structure	ModBase 3D Structure for Q86X24
Immunogen	Recombinant human HORMA domain-containing protein 1 protein
Conjugation	FITC
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-82188 / sc-82191
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HORMAD1 antibody	ELISA (EIA)
Related Product Information for anti-HORMAD1 antibody	Plays a key role in meiotic progression. Regulates 3 different functions during meiosis: ensures that sufficient numbers of processed DNA double-strand breaks (DSBs) are available for successful homology search by increasing the steady-state numbers of single-stranded DSB ends. Promotes synaptonemal-complex formation independently of its role in homology search. Plays a key role in the male mid-pachytene checkpoint and the female meiotic prophase checkpoint: required for efficient build-up of ATR activity on unsynapsed chromosome regions, a process believed to form the basis of meiotic silencing of unsynapsed chromatin (MSUC) and meiotic prophase quality control in both sexes.
Other Notes	Small volumes of anti-HORMAD1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HORMAD1 purchase	MBS7000202 is an antibody targeting HORMAD1. Also known as HORMAD1 Antibody; FITC conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HORMAD1. It may not necessarily be applicable to this product.

NCBI GI #	315434267
NCBI GeneID	84072
NCBI Accession #	NP_001186758.1
UniProt Primary Accession #	Q86X24
UniProt Secondary Accession #	Q4G114; Q5T5I3; Q5T5I4; Q5T5I5; Q6FIC1; Q9H0K8; A6NMK2; B3KUK1
UniProt Related Accession #	Q86X24
GenBank Nucleotide #	NM_001199829.1
NCBI Official Full Name	HORMA domain-containing protein 1 isoform 2
NCBI Official Synonym Full Names	HORMA domain containing 1
NCBI Official Symbol	HORMAD1
NCBI Official Synonym Symbols	CT46; NOHMA
UniProt Protein Name	HORMA domain-containing protein 1
UniProt Synonym Protein Names	Cancer/testis antigen 46; CT46; Newborn ovary HORMA protein
Protein Family	HORMA domain-containing protein
UniProt Gene Name	HORMAD1
UniProt Synonym Gene Names	NOHMA; CT46
UniProt Entry Name	HORM1_HUMAN
NCBI Protein Information	HORMA domain-containing protein 1
NCBI Summary for HORMAD1	This gene encodes a HORMA domain-containing protein. HORMA domains are involved in chromatin binding and play a role in cell cycle regulation. The encoded protein may play a role in meiosis, and expression of this gene is a potential marker for cancer. A pseudogene of this gene is located on the long arm of chromosome 6. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2010]
UniProt Comments for HORMAD1	HORMAD1: Plays a key role in meiotic progression. Regulates 3 different functions during meiosis: ensures that sufficient numbers of processed DNA double-strand breaks (DSBs) are available for successful homology search by increasing the steady-state numbers of single-stranded DSB ends. Promotes synaptonemal-complex formation independently of its role in homology search. Plays a key role in the male mid-pachytene checkpoint and the female meiotic prophase checkpoint: required for efficient build-up of ATR activity on unsynapsed chromosome regions, a process believed to form the basis of meiotic silencing of unsynapsed chromatin (MSUC) and meiotic prophase quality control in both sexes. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Cancer Testis Antigen (CTA) Chromosomal Location of Human Ortholog: 1q21.3 Cellular Component: chromosome; nucleus; synaptonemal complex Biological Process: blastocyst development; meiosis; meiotic DNA double-strand break formation; meiotic recombination checkpoint; meiotic sister chromatid cohesion; oogenesis; spermatogenesis; synaptonemal complex assembly
Research Articles on HORMAD1	**1.** Hormad1 and Hormad2 might not be the susceptible genes for the non-obstructive azoospermia in our study population. However, rs718772 of Hormad2 variant might be associated with testis development in NOA patients.

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