

# HORMAD1 (V-15): sc-82191

## BACKGROUND

HORMAD1 (HORMA domain containing 1), also known as NOHMA (newborn ovary HORMA protein) or CT46 (cancer/testis antigen 46), is a 394 amino acid testis-specific protein. HORMAD1 contains one HORMA (Hop1p, Rev7p and MAD2) domain (a domain involved in chromatin binding) that makes up the entire full-length sequence of the protein. Proteins with HORMA domains are typically involved in modulating chromatin dynamics and structure. The HORMA domain is believed to act as an adaptor, recruiting other proteins to chromatin states that result from nonattachment to the mitotic spindle or from DNA double-strand breaks. HORMAD1 is a putative meiotic protein, as is suggested by its 25.8% homology with the yeast protein Hop1 (a meiosis-specific protein). In addition, HORMAD1 is overexpressed in a variety of carcinomas, including breast, lung, endometrial, colon, bladder and esophageal cancers.

## REFERENCES

1. Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 609824. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
2. Pangas, S.A., Yan, W., Matzuk, M.M. and Rajkovic, A. 2004. Restricted germ cell expression of a gene encoding a novel mammalian HORMA domain-containing protein. *Gene Expr. Patterns* 5: 257-263.

## CHROMOSOMAL LOCATION

Genetic locus: HORMAD1 (human) mapping to 1q21.3; Hormad1 (mouse) mapping to 3 F2.1.

## SOURCE

HORMAD1 (V-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HORMAD1 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-82191 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

HORMAD1 (V-15) is recommended for detection of HORMAD1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

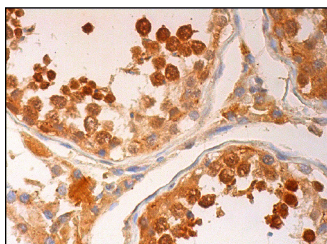
Suitable for use as control antibody for HORMAD1 siRNA (h): sc-75273, HORMAD1 siRNA (m): sc-75274, HORMAD1 shRNA Plasmid (h): sc-75273-SH, HORMAD1 shRNA Plasmid (m): sc-75274-SH, HORMAD1 shRNA (h) Lentiviral Particles: sc-75273-V and HORMAD1 shRNA (m) Lentiviral Particles: sc-75274-V.

Molecular Weight of HORMAD1: 45 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz<sup>™</sup>: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



HORMAD1 (V-15): sc-82191. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing nuclear and cytoplasmic staining of cells in seminiferous ducts.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **HORMAD1 (GG-Y): sc-101235**, our highly recommended monoclonal alternative to HORMAD1 (V-15).