10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MEIG1 Antibody

Catalog # ASC11337

Product Information

Application	WB, E, IHC-P
Primary Accession	Q5JSS6
Other Accession	Q5JSS6, 124249370
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	10795
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	MEIG1 antibody can be used for detection of MEIG1 by Western blot at 1 g/mL. Antibody can also be used for immunohistochemistry starting at 5 g/mL.

Additional Information

Gene ID	644890
Other Names	Meiosis expressed gene 1 protein homolog, MEIG1
Target/Specificity	MEIG1;
Reconstitution & Storage	MEIG1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	MEIG1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MEIG1 (HGNC:23429)
Function	Essential for spermiogenesis.

Background

MEIG1 Antibody: MEIG1, a murine gene first identified as a testis specific gene, is a chromosome/chromatin-binding protein initially expressed during meiosis but retained in the germ cell nucleus throughout later stages of spermatogenesis. MEIG1 is a highly conserved basal metazoan gene that is indispensable for mouse spermatogenesis. It is important for normal meiotic differentiation and

absolutely crucial for terminal differentiation of spermatozoa. MEIG1 encodes two alternative transcripts, designated 2a2 and 11a2, both of which encode for a common ORF but differing in their 5' untranslated region (5'UTR) due to alternative promoters.

References

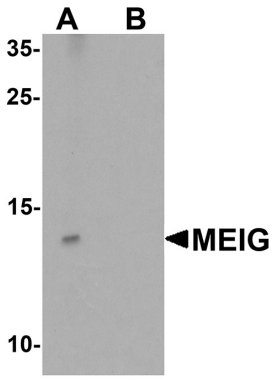
Don J and Wolgemuth DJ. Identification and characterization of the regulated pattern of expression of a novel mouse gene, meg1, during the meiotic cell cycle. Cell Growth Differ. 1992; 3:495-505

Salzberg Y, Eldar T, Karminsky OD, et al. Meig1 deficiency causes a severe defect in mouse spermatogenesis. Dev. Biol. 2010; 338:158-67.

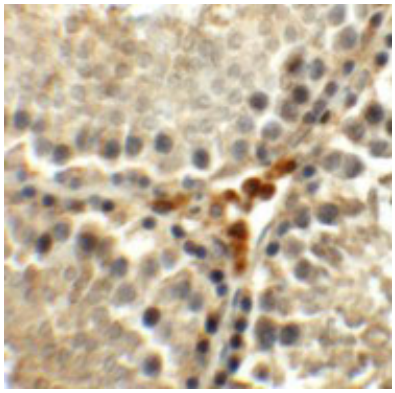
Zhang Z, Shen X, Gude DR, et al. MEIG1 is essential for spermiogenesis in mice. Proc. Natl. Acad. Sci. USA 2009; 106:17055-60.

Ever L, Steiner R, Shalom S, et al. Two alternatively spliced Meig1 messenger RNA species are differentially expressed in the somatic and in the germ-cell compartments of the testis. Cell Growth Differ. 1999; 10:19-26.

Images



Western blot analysis of MEIG in K562 cell lysate with MEIG antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of MEIG1 in rat testis tissue with MEIG1 antibody at 5 µg/mL.