

TOPAZ1 Antibody

Catalog # ASC11780

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q8N9V7
Other Accession	NP_001138502 , 222537754
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	190927
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	TOPAZ1 antibody can be used for detection of TOPAZ1 by Western blot at 1 - 2 μ g/ml. Antibody can also be used for Immunohistochemistry at 5 μ g/mL. For Immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	375337
Other Names	Testis- and ovary-specific PAZ domain-containing protein 1, TOPAZ1, C3orf77
Target/Specificity	TOPAZ1; TOPAZ1 antibody is human, mouse and rat reactive. At least three isoforms of TOPAZ1 are known to exist.
Reconstitution & Storage	TOPAZ1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	TOPAZ1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TOPAZ1
Synonyms	C3orf77
Function	Important for normal spermatogenesis and male fertility. Specifically required for progression to the post-meiotic stages of spermatocyte development. Seems to be necessary for normal expression levels of a number of testis-expressed gene transcripts, although its role in this process is unclear.
Cellular Location	Cytoplasm, cytosol {ECO:0000250 UniProtKB:E5FYH1}

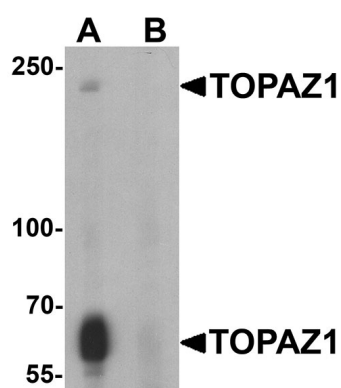
Background

The testis and ovary specific PAZ domain containing 1 (TOPAZ1) protein is a highly conserved protein that is highly expressed in the gonads during germ cell meiosis, suggesting that it may play a role in germ cell development (1). It contains a PAZ domain and a zinc finger domain and is exclusively expressed in adult testis and fetal ovary.

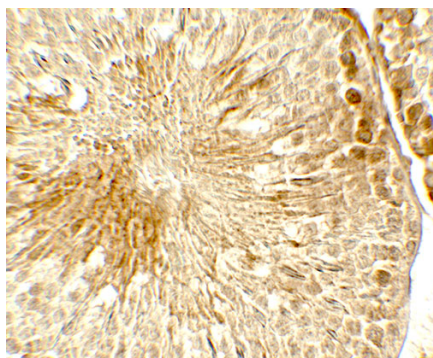
References

Baillet A, Le Bouffant R, Volff JN, et al. TOPAZ1, a novel germ cell-specific expressed gene conserved during evolution across vertebrates. PLoS One 2011; 6:e26950.

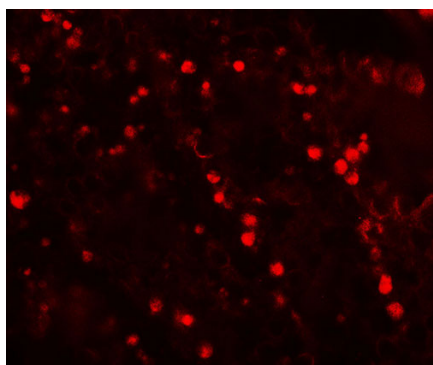
Images



Western blot analysis of TOPAZ1 in human testis tissue lysate with TOPAZ1 antibody at 1 $\mu\text{g/ml}$ in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of TOPAZ1 in rat testis tissue with TOPAZ1 antibody at 5 $\mu\text{g/mL}$.



Immunofluorescence of TOPAZ1 in rat testis tissue with TOPAZ1 antibody at 20 $\mu\text{g/mL}$.