

Anti-Stra8 Antibody

Catalog # ABO10998

Product Information

Application	WB
Primary Accession	Q7Z7C7
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Stimulated by retinoic acid gene 8 protein homolog(STRA8) detection. Tested with WB in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	346673
Other Names	Stimulated by retinoic acid gene 8 protein homolog, STRA8 {ECO:0000312 EMBL:AAP47163.1}
Calculated MW	36908
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Cytoplasm .
Tissue Specificity	Expressed specifically in testis. .
Source	Eukaryota
Protein Name	Stimulated by retinoic acid gene 8 protein homolog
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Stra8(313-330aa DEEMIMLQCTETFDDEDL).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

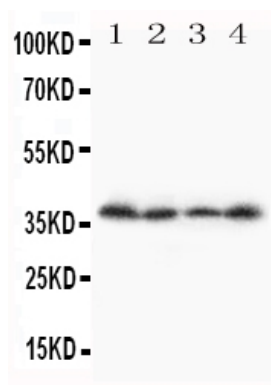
Protein Information

Name	STRA8 (HGNC:30653)
Function	Meiosis-inducer required for the transition into meiosis for both female and male germ cells. In female germ cells, acts downstream of ZGLP1 as a key effector of the meiotic program: required for premeiotic DNA replication and subsequent events in meiotic prophase. During spermatogenesis, next to its role in meiotic initiation, promotes (but is not required for) spermatogonial differentiation. In complex with MEIOSIN, directly activates the transcription of a subset of critical meiotic genes playing a central role in cell-cycle switching from mitosis to meiosis.
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:P70278}. Nucleus {ECO:0000250 UniProtKB:P70278}. Note=Shuttles between nucleus and cytoplasm. Nuclear export is XPO1-dependent {ECO:0000250 UniProtKB:P70278}
Tissue Location	Expressed specifically in testis and fetal ovaries.

Background

Stra8, stimulated by retinoic acid 8, is expressed in embryonic ovaries just before meiotic initiation, whereas in testis it is expressed after birth. The STRA8 gene contains 9 exons. And this gene is mapped to chromosome 7q31. Retinoic acid(RA) signaling was required for Stra8 expression, and therefore initiation of meiosis, in embryonic mouse ovaries. RA was sufficient to induce Stra8 expression in embryonic testis. Cyp26-mediated RA metabolism was responsible for delaying Stra8 expression in embryonic testis. Since RA signaling regulated Stra8 expression in both embryonic ovaries and adult testis, it was said this portion of the meiotic initiation pathway may be identical in both sexes.

Images



Anti-Stra8 antibody, ABO10998, Western blotting
Lane 1: A231 Cell Lysate
Lane 2: JURKAT Cell Lysate
Lane 3: HT1080 Cell Lysate
Lane 4: SCG Cell Lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.