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SYCE1 Rabbit pAb

Catalog # AP98918

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9D495
Other Accession	Q9D495
Reactivity	Rat
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38205
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse SYCE1
Epitope Specificity	201-300/351
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the SYCE family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the synaptonemal complex, which links homologous chromosomes during prophase I of meiosis. The tripartite structure of the complex is highly conserved amongst metazoans. It consists of two lateral elements and a central region formed by transverse elements and a central element. The protein encoded by this gene localizes to the central element and is required for initiation and elongation of the synapsis. Allelic variants of this gene have been associated with premature ovarian failure and spermatogenic failure. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2016]

Additional Information

Gene ID	74075
Other Names	C10orf94; CT76; POF12; SPGF15; 4933406J07Rik; SYCE1_HUMAN; SYCE1; Cancer/testis antigen 76 (CT76); SYCE1_MOUSE; synaptonemal complex central element protein 1; chromosome 10 open reading frame 94; cancer/testis antigen 76
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Syce1
Function	Major component of the transverse central element of synaptonemal complexes (SCS), formed between homologous chromosomes during meiotic prophase (PubMed:15944401). Requires SYCP1 in order to be incorporated into the central element (PubMed:15944401, PubMed:16968740). May have a role in the synaptonemal complex assembly, stabilization and recombination (PubMed:15944401).
Cellular Location	Nucleus. Chromosome Note=Associates with chromatin. In prophase I stage of meiosis, localizes in the transverse central elements of the central region between lateral elements of the synaptonemal complexes. Found only where the chromosome cores are synapsed. Colocalizes with SYCE2 in the central elements.
Tissue Location	Meiotic cells (at protein level). Expressed in the ovary and testis.

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