

SYCP3 Recombinant monoclonal antibody

Catalog Number: 86648-2-RR

Basic Information

Catalog Number: 86648-2-RR	GenBank Accession Number: BC062662	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 50511	CloneNo.: 251653A5
Isotype: IgG	UNIPROT ID: Q8IZU3	Recommended Dilutions: WB: 1:2000-1:10000 IHC: 1:250-1:1000
Immunogen Catalog Number: AG32466	Full Name: synaptonemal complex protein 3	
	Calculated MW: 236 aa, 28 kDa	
	Observed MW: 30 kDa, 33 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : mouse testis tissue, rat testis tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human testis tissue,

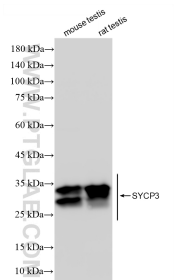
Background Information

SYCP3 is an essential structural component of the synaptonemal complex. This complex is involved in synapsis, recombination and segregation of meiotic chromosomes. SYCP3 is required for centromere pairing during meiosis in male germ cells. SYCP3 is also required for normal meiosis during spermatogenesis and male fertility. Mutations in SYCP3 are associated with azoospermia in males and susceptibility to pregnancy loss in females.

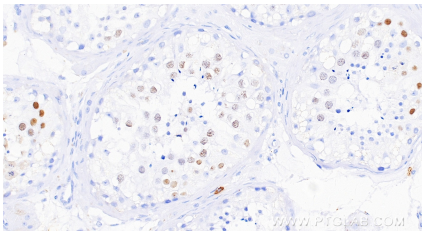
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

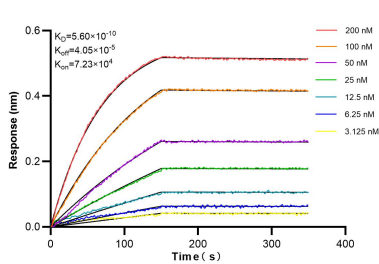
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86648-2-RR (SYCP3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 86648-2-RR (SYCP3 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 86648-2-RR against Human SYCP3 were performed. The affinity constant is 0.56 nM.