

For Research Use Only

KATNAL1 Recombinant antibody, PBS Only

Catalog Number: 85382-1-PBS



Basic Information

Catalog Number: 85382-1-PBS	GenBank Accession Number: BC000612	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 84056	CloneNo.: 242796B5
Source: Rabbit	UNIPROT ID: Q9BW62	
Isotype: IgG	Full Name: katanin p60 subunit A-like 1	
Immunogen Catalog Number: AG13960	Calculated MW: 490 aa, 55 kDa	
	Observed MW: 50-55 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, rat

Background Information

KATNAL1 belongs to a family of microtubule-severing proteins and contains an N-terminal microtubule interaction and trafficking (MIT) domain, an ATPase AAA-type core domain, and a C-terminal Vps4_C domain. KATNAL1 is involved in regulating microtubule dynamics, which is essential for spermiogenesis and male fertility. It severs microtubules in an ATP-dependent manner, promoting rapid reorganization of cellular microtubule arrays (PMID: 22654668). In neurons, KATNAL1 plays a role in microtubule rearrangement during neuronal migration and process elongation. Additionally, mutations in KATNAL1 have been associated with intellectual disability and microcephaly in humans (PMID: 30448058).

Storage

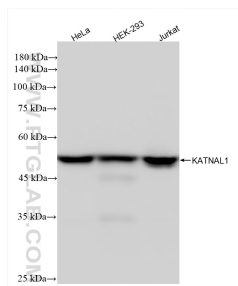
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

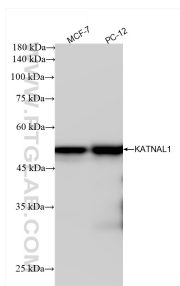
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85382-1-RR (KATNAL1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85382-1-PBS in a different storage buffer formulation.



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