

For Research Use Only

# SAMD4A Recombinant antibody

Catalog Number: 86530-1-RR



## Basic Information

Catalog Number:	86530-1-RR	GenBank Accession Number:	BC021726	Purification Method:	Protein A purification
Size:	100ul, Concentration: 1000 µg/ml by Nanodrop;	GenID (NCBI):	23034	CloneNo.:	251369F11
Source:	Rabbit	UNIPROT ID:	Q9UPU9	Recommended Dilutions:	WB: 1:5000-1:50000
Isotype:	IgG	Full Name:	sterile alpha motif domain containing 4A		
Immunogen Catalog Number:	AG11273	Calculated MW:	529 aa, 59 kDa		
		Observed MW:	70-71 kDa		

## Applications

Tested Applications:	WB, ELISA	Positive Controls:
Species Specificity:	human, mouse, rat	WB: mouse testis tissue, rat testis tissue

## Background Information

SAMD4A is also named as KIAA1053, SAMD4, SMAUG1, hSmaug1 and belongs to the SMAUG family. SAMD4A acts as a translational repressor of SRE-containing messengers. (PMID:16221671). In particular, as orthologous alternative splicing isoforms, mouse Samd4a E-form and human SAMD4A C-form containing the SAM domain were specific to testes. Samd4a/SAMD4A plays an essential role in normal spermatogenesis, and SAMD4A, as a spermatid specific marker, can be used for subcategorizing nonobstructive azoospermia patients (PMID:36274854). In mammalian cells, human SAMD4A can form a kind of mRNA-silencing foci in the cytoplasm, acting differently from processing body and stress granules. Recently, it was reported that human SAMD4A can protect the host from viral infection by degrading viral RNA (PMID: 32341522). Indition, 14-3-3s negatively regulate the localization of the RNA-binding protein SAMD4A to cytoplasmic granules and inhibit its activity as a translational repressor (PMID: 36931259).

## Storage

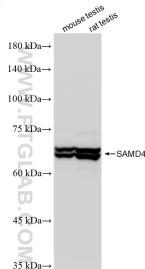
Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

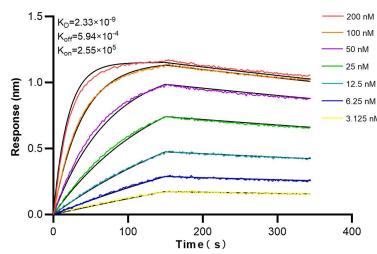
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86530-1-RR (SAMD4A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86530-1-RR against Human SAMD4A were performed. The affinity constant is 2.33 nM.