

For Research Use Only

SAMD4A Recombinant antibody, PBS Only

Catalog Number:**86530-1-PBS**



Basic Information

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

Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

human, mouse, rat

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 -80°C.

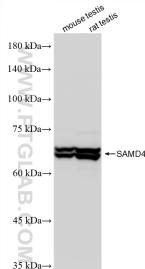
Storage Buffer:

PBS only, pH7.3

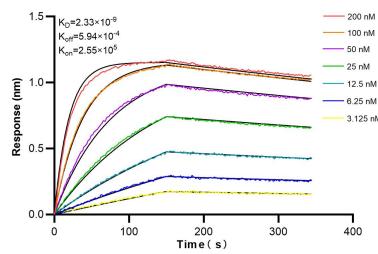
For technical support and original validation data for this product please contact:
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Selected Validation Data



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. This data was developed using the same antibody clone with 86530-1-PBS in a different storage buffer formulation.



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