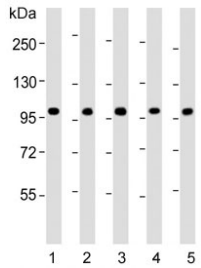
RSBN1 Antibody / Round spermatid basic protein 1 (F54231)

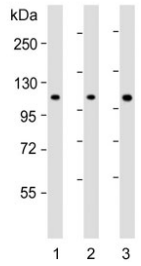
Catalog No.	Formulation	Size
F54231-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54231-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

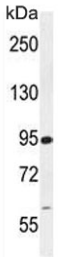
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	Q5VWQ0
Gene ID	54665
Applications	Western blot: 1:1000-1:2000 Immunohistochemistry (FFPE): 1:25 Flow cytometry: 1:25 (1x10e6 cells)
Limitations	This RSBN1 antibody is available for research use only.



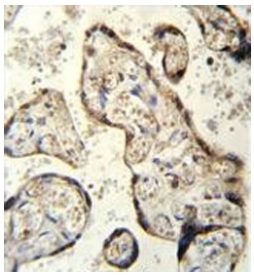
Western blot testing of human 1) CCRF-CEM, 2) Jurkat, 3) liver, 4) MCF7 and 5) HL60 lysate with RSBN1 antibody. Predicted molecular weight ~91 kDa.



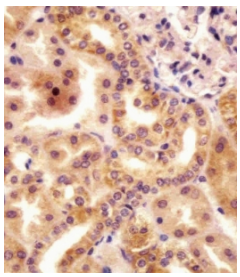
Western blot testing of human 1) liver, 2) MCF7 and 3) HL60 lysate with RSBN1 antibody. Predicted molecular weight ~91 kDa.



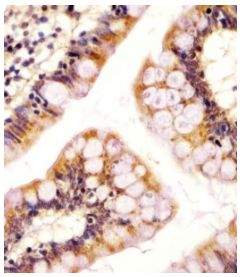
Western blot testing of human Jurkat lysate with RSBN1 antibody. Predicted molecular weight ~91 kDa.



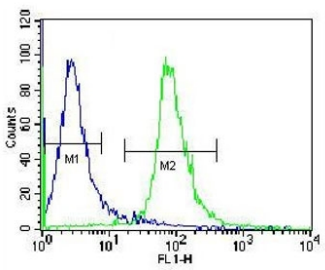
IHC testing of FFPE human placenta tissue with RSBN1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human kidney tissue with RSBN1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human colon tissue with RSBN1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Flow cytometry testing of human Jurkat cells with RSBN1 antibody; Blue=isotype control, Green= RSBN1 antibody.

Description

RSBN1 protein (Round spermatid basic protein 1) is a key component in the process of spermatid development. It is predominantly found in round spermatids, which are the precursors to mature sperm cells. RSBN1 protein plays a vital role in the organization of chromatin, a complex of DNA and proteins found within the nucleus of cells. This organization is essential for the proper packaging and condensation of genetic material in sperm cells. Studies have shown that disruptions in the expression of RSBN1 protein can lead to abnormalities in sperm formation and development. This can ultimately result in male infertility. Research has also suggested that RSBN1 protein may play a role in the regulation of gene expression during spermatid development, further highlighting its importance in male fertility.

Application Notes

The stated application concentrations are suggested starting points. Titration of the RSBN1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 51-78 from the human protein were used as the immunogen for the RSBN1 antibody.

Storage

Aliquot the RSBN1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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