

**SPTBN3 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP56774****Specification**

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**SPTBN3 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">Q9H254</a>
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	289 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SPTBN3
Epitope Specificity	2401-2500/2564
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm > cytoskeleton. Cytoplasm > cell cortex.
SIMILARITY	Belongs to the spectrin family. Contains 2 CH (calponin-homology) domains. Contains 1 PH domain. Contains 18 spectrin repeats.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

Spectrin, an actin binding protein that is a major component of the cytoskeletal superstructure of the erythrocyte plasma membrane, is essential in determining the properties of the membrane including its shape and deformability. Spectrins function as membrane organizers and stabilizers, composed of nonhomologous Alpha and beta chains, which aggregate side-to-side in an antiparallel fashion to form dimers, tetramers, and higher polymers. The spectrin tetramers in erythrocytes act as barriers to lateral diffusion, but spectrin dimers seem to lack this function. Spectrin beta IV is a non-erythrocytic member of the beta-spectrin family. It is expressed in brain and pancreatic islets and localizes to the nuclear matrix, cytoplasmic vesicles and PML nuclear bodies. Spectrin beta IV is a 2,564 amino acid protein with four isoforms due to alternative splicing events.

**SPTBN3 Polyclonal Antibody - Additional Information****Gene ID** 57731**Other Names**

Spectrin beta chain, non-erythrocytic 4, Beta-IV spectrin, Spectrin, non-erythroid beta chain 3, SPTBN4, KIAA1642, SPTBN3

**Target/Specificity**

Abundantly expressed in brain and pancreatic islets.

**Dilution**

IHC-P~~N/A  
IHC-F~~N/A  
IF~~1:50~200  
ICC~~N/A  
E~~N/A

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**SPTBN3 Polyclonal Antibody - Protein Information**

**Name** SPTBN4

**Synonyms** KIAA1642, SPTBN3

**Cellular Location**

Cytoplasm, cytoskeleton. Cytoplasm, cell cortex

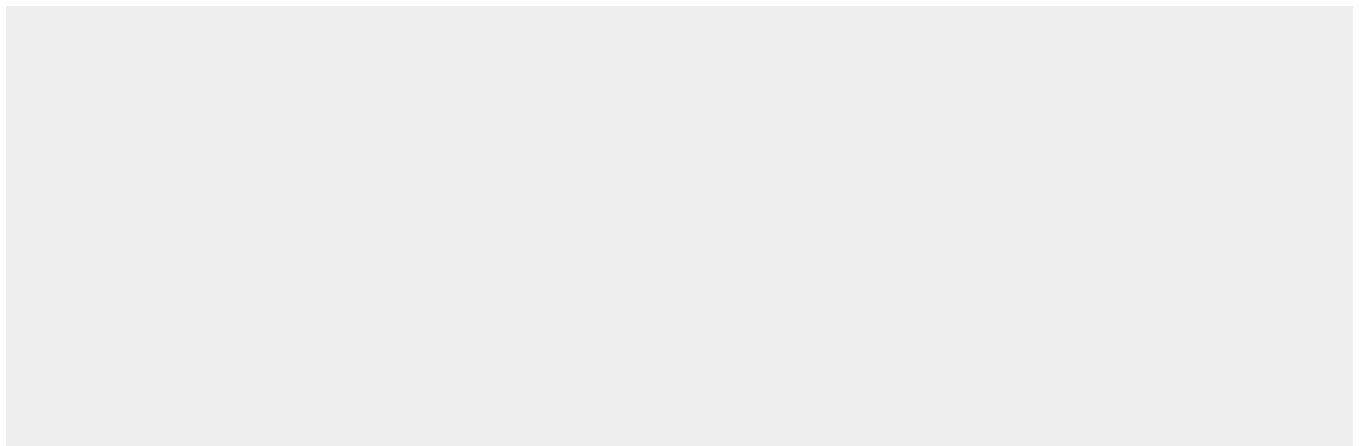
**Tissue Location**

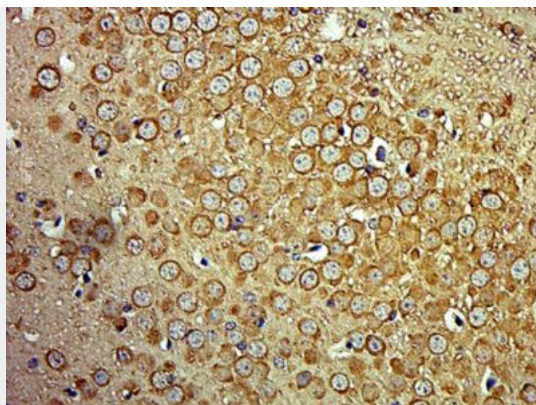
Expressed in skeletal muscle at the sarcolemma and in the muscle capillaries (at protein level) (PubMed:28540413) Abundantly expressed in brain and pancreatic islets (PubMed:11086001)

**SPTBN3 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SPTBN3 Polyclonal Antibody - Images**



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SPTBN3) Polyclonal Antibody, Unconjugated (bs-17649R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.