

Datasheet for ABIN7602356

## **anti-Spectrin beta Chain, Erythrocyte (SPTB) (AA 703-2137) antibody**



[Go to Product page](#)

### Overview

Quantity:	100 µg
Target:	Spectrin beta Chain, Erythrocyte (SPTB)
Binding Specificity:	AA 703-2137
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

### Product Details

Purpose:	Anti-beta 1 Spectrin/SPTB Antibody Picoband®
Immunogen:	E.coli-derived human beta 1 Spectrin/SPTB recombinant protein (Position: M703-Y2137).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-beta 1 Spectrin/SPTB Antibody Picoband® (ABIN7602356). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

## Target Details

Target:	Spectrin beta Chain, Erythrocyte (SPTB)
Alternative Name:	SPTB ( <a href="#">SPTB Products</a> )
Background:	<p>Synonyms: Caspase-2, CASP-2, Neural precursor cell expressed developmentally down-regulated protein 2, NEDD-2, Protease ICH-1, Caspase-2 subunit p18, Caspase-2 subunit p13, Caspase-2 subunit p12, CASP2, ICH1, NEDD2</p> <p>Tissue Specificity: Expressed at higher levels in the embryonic lung, liver and kidney than in the heart and brain. In adults, higher level expression is seen in the placenta, lung, kidney, and pancreas than in the heart, brain, liver and skeletal muscle.</p> <p>Background: Spectrin beta chain, erythrocyte is a protein that in humans is encoded by the SPTB gene. This locus encodes a member of the spectrin gene family. Spectrin proteins, along with ankyrin, play a role in cell membrane organization and stability. The protein encoded by this locus functions in stability of erythrocyte membranes, and mutations in this gene have been associated with spherocytosis type 2, hereditary elliptocytosis, and neonatal hemolytic anemia. Alternatively spliced transcript variants have been described.</p>
Molecular Weight:	270 kDa
Gene ID:	6710
UniProt:	<a href="#">P11277</a>
Pathways:	<a href="#">Regulation of Actin Filament Polymerization</a>

## Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat</p> <p>Flow Cytometry (Fixed), 1-3 µg/1x10<sup>6</sup> cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Basseres, D. S., Duarte, A. S. S., Hassoun, H., Costa, F. F., Saad, S. T. O. Beta-spectrin S-ta Barbara: a novel frameshift mutation in hereditary spherocytosis associated with detectable levels of mRNA and a germ cell line mosaicism. Brit. J. Haemat. 115: 347-353, 2001. Note: Erratum: Brit. J. Haemat. 116: 925 only, 2002. 2. Basseres, D. S., Vicentim, D. L., Costa, F. F., Saad, S. T. O., Hassoun, H. Beta-spectrin Promissao: a translation initiation codon mutation of the beta-spectrin gene (ATG-to-GTG) associated with hereditary spherocytosis and spectrin deficiency in a Brazilian family. (Letter) Blood 91: 368-369, 1998. 3. Becker, P. S., Tse, W. T., Lux, S. E., Forget, B. G. Beta-spectrin Kissimmee: a spectrin variant associated with autosomal dominant hereditary spherocytosis and defective binding to protein 4.1. J. Clin. Invest. 92: 612-616, 1993.</p>
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## Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.