



## Anti-SPTBN2 (aa 643-720) polyclonal antibody (DPAB-DC2957)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	Spectrins are principle components of a cells membrane-cytoskeleton and are composed of two alpha and two beta spectrin subunits. The protein encoded by this gene (SPTBN2), is called spectrin beta non-erythrocytic 2 or beta-III spectrin. It is related to, but distinct from, the beta-II spectrin gene which is also known as spectrin beta non-erythrocytic 1 (SPTBN1). SPTBN2 regulates the glutamate signaling pathway by stabilizing the glutamate transporter EAAT4 at the surface of the plasma membrane. Mutations in this gene cause a form of spinocerebellar ataxia, SCA5, that is characterized by neurodegeneration, progressive locomotor incoordination, dysarthria, and uncoordinated eye movements.
<b>Immunogen</b>	SPTBN2 (NP_008877, 643 a.a. ~ 720 a.a) partial recombinant protein with GST tag. The sequence is  LWRFLWEVGEAEAWVREQQHLLASADTGRDLTGALRLLNKHTALRGEMSGRLGPLKLTLE QQQQLVAEGHPGASQASA
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

# GENE INFORMATION

Gene Name	<a href="#">SPTBN2 spectrin, beta, non-erythrocytic 2 [ Homo sapiens (human) ]</a>
Official Symbol	SPTBN2
Synonyms	SPTBN2; spectrin, beta, non-erythrocytic 2; SCA5; SCAR14; GTRAP41; spectrin beta chain, non-erythrocytic 2; beta-III spectrin; spectrin beta III sigma 2; spectrin beta chain, brain 2; spinocerebellar ataxia 5 protein; spectrin, non-erythroid beta chain 2; glutamate transporter EAAT4-associated protein 41;
Entrez Gene ID	<a href="#">6712</a>
Protein Refseq	<a href="#">NP_008877</a>
UniProt ID	<a href="#">O15020</a>
Chromosome Location	11q13
Pathway	Adaptive Immune System; Developmental Biology; Interaction between L1 and Ankyrins; MHC class II antigen presentation.
Function	actin binding; phospholipid binding; structural constituent of cytoskeleton;