abcam

Product datasheet

Anti-alpha 1 Spectrin antibody [EPR9300] ab139403

Recombinant RabMAb

1 References 2 Images

Overview

Product name	Anti-alpha 1 Spectrin antibody [EPR9300]
Description	Rabbit monoclonal [EPR9300] to alpha 1 Spectrin
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF, Flow Cyt **Unsuitable for:** IHC-P or IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human alpha 1 Spectrin aa 2300-2400. The exact sequence is proprietary.
Positive control	K562, Human fetal heart and fetal liver lysates; K562 cells
General notes	

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.

This product is a recombinant rabbit monoclonal antibody.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20ºC.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR9300
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab139403** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 280 kDa.
ICC/IF		1/100 - 1/250.
Flow Cyt		1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Application notes Is unsuitable for IHC-P or IP.

Target

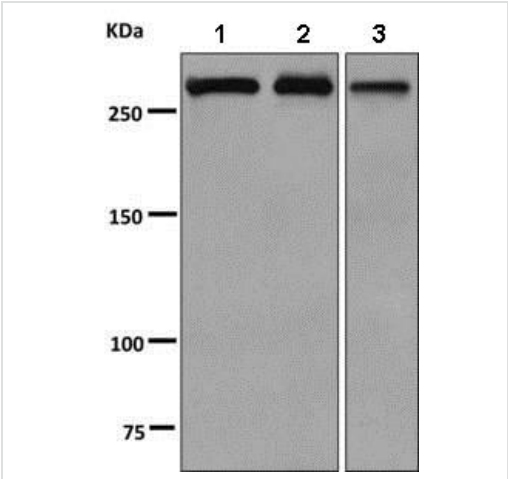
Function Spectrin is the major constituent of the cytoskeletal network underlying the erythrocyte plasma membrane. It associates with band 4.1 and actin to form the cytoskeletal superstructure of the erythrocyte plasma membrane.

Involvement in disease Defects in SPTA1 are the cause of elliptocytosis type 2 (EL2) [MIM:130600]. EL2 is a Rhesus-unlinked form of hereditary elliptocytosis, a genetically heterogeneous, autosomal dominant hematologic disorder. It is characterized by variable hemolytic anemia and elliptical or oval red cell shape.
Defects in SPTA1 are a cause of hereditary pyropoikilocytosis (HPP) [MIM:266140]. HPP is an autosomal recessive disorder characterized by hemolytic anemia, microspherocytosis, poikilocytosis, and an unusual thermal sensitivity of red cells.
Defects in SPTA1 are the cause of spherocytosis type 3 (SPH3) [MIM:270970]; also known as hereditary spherocytosis type 3 (HS3). Spherocytosis is a hematologic disorder leading to chronic hemolytic anemia and characterized by numerous abnormally shaped erythrocytes which are generally spheroidal. SPH3 is characterized by severe hemolytic anemia. Inheritance is autosomal recessive.

Sequence similarities Belongs to the spectrin family.
Contains 3 EF-hand domains.
Contains 1 SH3 domain.
Contains 21 spectrin repeats.

Cellular localization Cytoplasm > cytoskeleton. Cytoplasm > cell cortex.

Images



Western blot - Anti-alpha 1 Spectrin antibody [EPR9300] (ab139403)

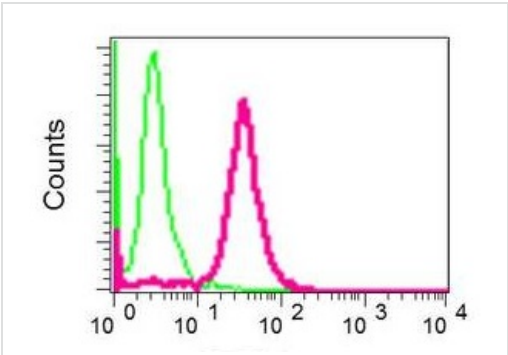
All lanes : Anti-alpha 1 Spectrin antibody [EPR9300] (ab139403) at 1/1000 dilution

Lane 1 : K562 lysate
Lane 2 : Human fetal heart lysate
Lane 3 : Human fetal liver lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 280 kDa



Flow Cytometry - Anti-alpha 1 Spectrin antibody [EPR9300] (ab139403)

Flow Cytometric analysis of permeabilized K562 cells labelling alpha 1 Spectrin with ab139403 at 1/100 dilution (red) or a rabbit IgG (negative) (green).

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