abcam

Product datasheet

Anti-alpha 1 Spectrin antibody [AF10] ab86184

Overview

Product name	Anti-alpha 1 Spectrin antibody [AF10]
Description	Mouse monoclonal [AF10] to alpha 1 Spectrin
Host species	Mouse
Specificity	ab86184 is specific to the erythroid alpha 1 Spectrin.
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Human
Immunogen	Full length protein corresponding to Human alpha 1 Spectrin. Ghost proteins of human red blood cells.

General notes

ab86184 is derived from the hybridoma produced by fusion between myeloma cells and Balb/c spleen cells.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.1% Sodium azide Constituents: 1% BSA, PBS
Purity	Protein G purified
Primary antibody notes	ab86184 is derived from the hybridoma produced by fusion between myeloma cells and Balb/c spleen cells.
Clonality	Monoclonal
Clone number	AF10

Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab86184 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. Predicted molecular weight: 280 kDa.
IP		Use at an assay dependent concentration.

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.

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