SPTA1 Rabbit pAb

CatalogNo: YN4314

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- WB

MW
- 266kD (Calculated)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human SPTA1 AA range: 1217-1267
Specificity	This antibody detects endogenous levels of SPTA1 at Human/Mouse

Target Information

Gene name	SPTA1 SPTA

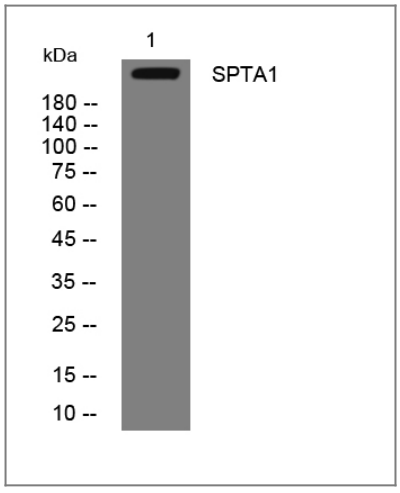
Protein Name SPTA1

Organism	Gene ID	UniProt ID
Human	6708;	P02549;
Mouse	20739;	P08032;

Cellular Localization Cytoplasm, cytoskeleton. Cytoplasm, cell cortex.

Function Disease: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.,Disease:Defects in SPTA1 are the cause of elliptocytosis type 2 (EL2) [MIM:182860]. 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.,Disease:Defects in SPTA1 are the cause of spherocytosis type III (SPH3) [MIM:270970]. SPH3 is a disorder characterized by severe hemolytic anemia. Inheritance is autosomal recessive.,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.,miscellaneous:This complex is anchored to the cytoplasmic face of the plasma membrane via another protein, ankyrin, which binds to beta-spectrin and mediates the binding of the whole complex to a transmembrane protein band 3. The interaction of erythrocyte spectrin with other proteins through specific binding domains lead to the formation of an extensive subplasmalemmal meshwork which is thought to be responsible for the maintenance of the biconcave shape of human erythrocytes, for the regulation of plasma membrane components and for the maintenance of the lipid asymmetry of the plasma membrane.,similarity:Belongs to the spectrin family.,similarity:Contains 1 SH3 domain.,similarity:Contains 22 spectrin repeats.,similarity:Contains 3 EF-hand domains.,subunit:Composed of nonhomologous chains, alpha and beta, which aggregate side-to-side in an antiparallel fashion to form dimers, tetramers, and higher polymers.,

Validation Data



Western blot analysis of lysates from Jurkat cells, primary antibody was diluted at 1:1000, 4°over night

Contact information

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