

RecomAb™

## SPTA1 recombinant monoclonal antibody, clone R04-4Z1

Catalog # RAB05628      Size 100 uL

### Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human SPTA1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against corresponding to human SPTA1.
Theoretical MW (kDa)	Calculated MW: 280 k
Reactivity	Human, Mouse, Rat
Form	Liquid
Isotype	IgG
Recommend Usage	Flow Cytometry (1/50-1/100) Immunofluorescence (1/50-1/200) Western Blot (1/500-1/1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

### Applications

- Western Blot
- Immunofluorescence
- Flow Cytometry

## Gene Info — SPTA1

**Entrez GeneID** [6708](#)**Gene Name** SPTA1**Gene Alias** EL2, SPTA**Gene Description** spectrin, alpha, erythrocytic 1 (elliptocytosis 2)**Omim ID** [130600](#) [182860](#) [266140](#) [270970](#)**Gene Ontology** [Hyperlink](#)

**Gene Summary**

Spectrin is an actin crosslinking and molecular scaffold protein that links the plasma membrane to the actin cytoskeleton, and functions in the determination of cell shape, arrangement of transmembrane proteins, and organization of organelles. It is a tetramer made up of alpha-beta dimers linked in a head-to-head arrangement. This gene is one member of a family of alpha-spectrin genes. The encoded protein is primarily composed of 22 spectrin repeats which are involved in dimer formation. It forms weaker tetramer interactions than non-erythrocytic alpha spectrin, which may increase the plasma membrane elasticity and deformability of red blood cells. Mutations in this gene result in a variety of hereditary red blood cell disorders, including elliptocytosis type 2, pyropoikilocytosis, and spherocytic hemolytic anemia. [provided by RefSeq]

**Other Designations** OTTHUMP00000021115|alpha-I spectrin|erythrocyte alpha-spectrin|erythroid alpha-spectrin|spectrin alpha chain, erythrocyte|spectrin, alpha, erythrocytic 1

## Disease

- [Hypertension](#)
- [Tobacco Use Disorder](#)