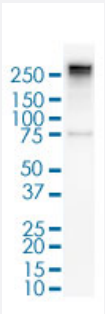
RecomAb™

SPTA1 recombinant monoclonal antibody, clone SPTA1/2939R

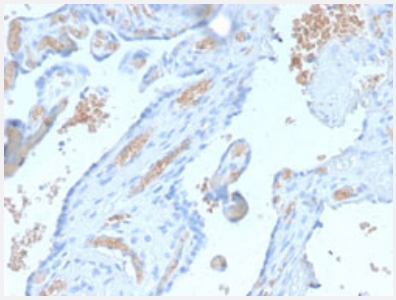
Catalog # RAB00632 Size 100 ug

Applications



Western Blot (Cell lysate)

Western Blot (cell lysate) analysis of K562 cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human pancreas.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against partial human SPTA1.
Antibody Species	Rabbit
Immunogen	Recombinant protein corresponding to amino acids 356-475 of human SPTA1.
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification

Isotype	IgG
Recommend Usage	ELISA (Use Ab at 2-4 ug/mL for coating) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1-2 ug/mL) Western Blot (1-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 1 mg/mL PBS
Storage Instruction	Store at -20 to -80°C.

Applications

- Western Blot (Cell lysate)

  Western Blot (cell lysate) analysis of K562 cell lysate.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining of human pancreas.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — SPTA1

Entrez GeneID	6708
Protein Accession#	P02549
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 transmem brane proteins, and organization of organelles. It is a tetramer made up of alpha-beta dimers linke d in a head-to-head arrangement. This gene is one member of a family of alpha-spectrin genes. T he encoded protein is primarily composed of 22 spectrin repeats which are involved in dimer for mation. It forms weaker tetramer interactions than non-erythrocytic alpha spectrin, which may incre ase the plasma membrane elasticity and deformability of red blood cells. Mutations in this gene re sult in a variety of hereditary red blood cell disorders, including elliptocytosis type 2, pyropoikilocyt osis, and spherocytic hemolytic anemia. [provided by RefSeq
Other Designations	OTTHUMP00000021115|alpha-I spectrin|erythrocyte alpha-spectrin|erythroid alpha-spectrin|spect rin alpha chain, erythrocyte|spectrin, alpha, erythrocytic 1

Disease

- Hypertension
- Tobacco Use Disorder