

protein 4.2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP59412

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P16452
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	77009
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human EPB42/protein 4.2
Epitope Specificity	201-300/691
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane. Cytoplasm > cytoskeleton. Cytoplasmic surface of erythrocyte membranes.
SIMILARITY	Belongs to the transglutaminase superfamily. Transglutaminase family.
SUBUNIT	Oligomer. Interacts with the cytoplasmic domain of SLC4A1/band 3 anion transport protein.
Post-translational modifications	Both cAMP-dependent kinase (CAPK) and another kinase present in the red-blood cells seem to be able to phosphorylate EPB42.
DISEASE	Defects in EPB42 are the cause of spherocytosis type 5 (SPH5) [MIM:612690]; also known as hereditary spherocytosis type 5 (HS5). Spherocytosis is a hematologic disorder leading to chronic hemolytic anemia and characterized by numerous abnormally shaped erythrocytes which are generally spheroidal. Absence of band 4.2 associated with spur or target erythrocytes has also been reported.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	protein 4.2; protein4.2; EPB42; EPB42_HUMAN; Erythrocyte membrane protein band 4.2; Erythrocyte protein 4.2; Erythrocyte surface protein band 4.2; MGC116735; P4.2; PA; SPH5.

Additional Information

Gene ID	2038
Other Names	Protein 4.2, P4.2, Erythrocyte membrane protein band 4.2 {ECO:0000312 HGNC:HGNC:3381}, Erythrocyte protein 4.2, EPB42 (HGNC:3381), E42P
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200,ELISA=1:5000-10000

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	EPB42 (HGNC:3381)
Synonyms	E42P
Function	Component of the ankyrin-1 complex, a multiprotein complex involved in the stability and shape of the erythrocyte membrane.
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side. Cytoplasm, cytoskeleton. Note=Cytoplasmic surface of erythrocyte membranes

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.