

# protein 4.2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP59412

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF, E
<b>Primary Accession</b>	<a href="#">P16452</a>
<b>Reactivity</b>	Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	77009
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human EPB42/protein 4.2
<b>Epitope Specificity</b>	201-300/691
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Cell membrane. Cytoplasm > cytoskeleton. Cytoplasmic surface of erythrocyte membranes.
<b>SIMILARITY</b>	Belongs to the transglutaminase superfamily. Transglutaminase family.
<b>SUBUNIT</b>	Oligomer. Interacts with the cytoplasmic domain of SLC4A1/band 3 anion transport protein.
<b>Post-translational modifications</b>	Both cAMP-dependent kinase (CAPK) and another kinase present in the red-blood cells seem to be able to phosphorylate EPB42.
<b>DISEASE</b>	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.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	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

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

<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glycerol
<b>Storage</b>	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

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<b>Name</b>	EPB42 ( <a href="#">HGNC:3381</a> )
<b>Synonyms</b>	E42P
<b>Function</b>	Component of the ankyrin-1 complex, a multiprotein complex involved in the stability and shape of the erythrocyte membrane.
<b>Cellular Location</b>	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'.