



EPB42, Erythrocyte membrane protein band 4.2 polyclonal antibody

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Box 1 | Basic Info

Cat. No.	ABP-PAB-10731
Animal ID	RB0161-0162
Host	Rabbit
Reactivity	Human
Format	Purified
Accession number	NM_000119
Amount	100µg

Alternative Name(s):

PA

The erythrocyte membrane protein band 4.2 (EPB42) is an ATP-binding protein which seems to regulate the association of protein 3 with ankyrin. Additionally, it has a role in erythrocyte shape and mechanical property regulation. Mutations in the EPB42 gene are associated with recessive spherocytic elliptocytosis and recessively transmitted hereditary hemolytic anemia.

Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

Immunogen

KLH conjugated synthetic peptide comprised of amino acids 40 - 57 [CDFQAARNNEEHHTKALS] of the human erythrocyte membrane protein band 4.2 (EPB42) protein.

Application

Tested by peptide-specific ELISA (1:1,000).

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

References:

1. Azim AC, Marfatia SM, Korsgren C, Dotimas E, Cohen CM, Chishti AH: Human erythrocyte dematin and protein 4.2 (pallidin) are ATP binding proteins. *Biochemistry* 35(9): 3001-3006 (1996).
2. Korsgren C, Cohen CM: Organization of the gene for human erythrocyte membrane protein 4.2: structural similarities with the gene for the a subunit of factor XIII. *Proc. Natl. Acad. Sci. U S A.* 88(11): 4840-4844 (1991).
3. Sung LA, Chien S, Chang LS, Lambert K, Bliss SA, Bouhassira EE, Nagel RL, Schwartz RS, Rybicki AC: Molecular cloning of human protein 4.2: a major component of the erythrocyte membrane. *Proc. Natl. Acad. Sci. U S A.* 87(3): 955-959 (1990).
4. Korsgren C, Lawler J, Lambert S, Speicher D, Cohen CM: Complete amino acid sequence and homologies of human erythrocyte membrane protein band 4.2. *Proc. Natl. Acad. Sci. U S A.* 87(2): 613-617 (1990).
5. Korsgren C, Cohen CM: Associations of human erythrocyte band 4.2. Binding to ankyrin and to the cytoplasmic domain of band 3. *J. Biol. Chem.* 263(21): 10212-10218 (1988).
6. White RA, Peters LL, Adkison LR, Korsgren C, Cohen CM, Lux SE: The murine pallid mutation is a platelet storage pool disease associated with the protein 4.2 (pallidin) gene. *Nat. Genet.* 2(1): 80-83 (1992).