

**Table 6-1 Proteins of the red blood cell cortex**

Protein	Size (kDa)	Copies per cell	Relative number	Number per $\mu\text{m}^2$
<b>INTEGRAL MEMBRANE PROTEINS</b>				
band III	105	1,200,000	12	8000
glycophorin dimer	50	1,000,000	10	6600
<b>CORTICAL PROTEINS</b>				
spectrin, dimer	280/246	200,000	2	1300
ankyrin	206	100,000	1	700
actin, monomer	43	500,000	5	3300
tropomyosin	29/27	80,000	0.8	530
band 4.1	78	200,000	2	1300
adducin $\alpha/\beta$	103/97	30,000	0.3	300

Calculations based on a surface area for human erythrocytes of  $150 \mu\text{m}^2$ . The human erythrocyte membrane skeleton also contains calmodulin, CapZ, tropomodulin, caldesmon, dematin, and other proteins.