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<b>Antigen</b>	Wr <sup>b</sup> (ISBT No.211002)
<b>Clone</b>	BIRMA 84b
<b>Product Code</b>	9455
<b>Immunoglobulin Class</b>	Mouse IgG3 $\kappa$ , kappa light chain

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and Production Unit****Tel:** +44 (0)117 921 7500  
**Fax:** +44 (0)117 912 5796**Website:** <http://ibgri.blood.co.uk>**Email:** [enquiries.IBGRL@nhsbt.nhs.uk](mailto:enquiries.IBGRL@nhsbt.nhs.uk)**Antigen Description and Distribution**

The Wr<sup>b</sup> antigen is defined as the amino acid sequence at residue 658 (GLU) of the major erythrocyte anion transport protein band 3<sup>1,2,3</sup>. The antigen is stabilised by the association between band 3 and Glycophorin A (GPA, CD 235a). It is found only on erythroid cells. There are approximately 10<sup>6</sup> antigen sites per erythrocyte<sup>4</sup>. The antigen is found on all human erythrocytes except for the very rare Wr(b-) and Glycophorin A deficient types.

**Clone**

BIRMA 84b was produced from a mouse hybridoma derived from the fusion of Balb/c spleen cells with NSO myeloma cells. BIRMA 84b was made in response to erythrocytes. It is unreactive by immunoblotting. BIRMA 84b is a direct haemagglutinin. BIRMA 84b was submitted to the third international workshop and symposium on monoclonal antibodies against human red blood cells and related antigens, Nantes, 1996<sup>5</sup>.

**References**

1. Paulitschke *et al.* Blood 1995, **86**: 342-348.
2. Bruce *et al.* Blood 1995, **85**: 541-547.
3. Anstee D.J. (1990) Vox Sang. **58**: 1-20 (Review).
4. Gardner *et al* (1989) Immunol. **68**, 283-289.
5. Reid ME *et al* (1997) Transfusion Clinique et Biologique Vol 4 **1**; 57-64.