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# RECOMBINANT BLOOD GROUP ANTIGENS

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recombinant blood group proteins for serology

FluoGene

Ready Gene

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Software

PCR & Electrophoresis

SuBiTo

Ready Plate

DNA-Extraction

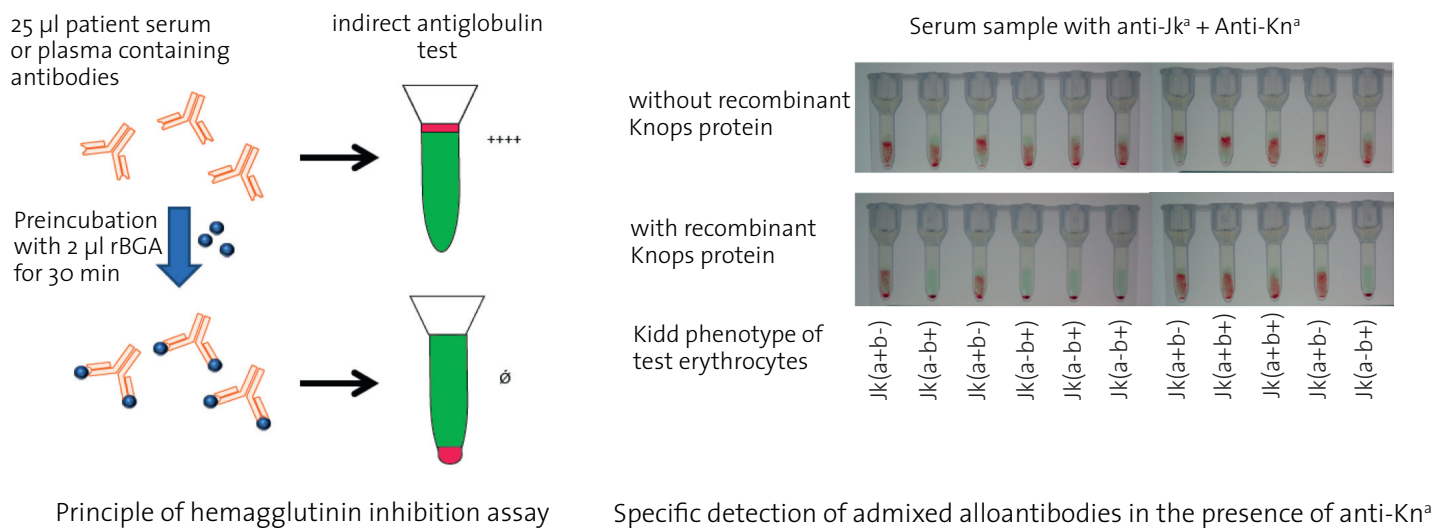
## RECOMBINANT BLOOD GROUP ANTIGENS- SOLUTION FOR LIMITED RBC ALLOANTIBODY DETECTION

The detection of antibodies to blood group antigens is crucial in pre and posttransfusion testing to allow for adequate blood supply of patients requiring blood transfusions. In cases when e.g. antibody mixtures, autoantibodies or alloantibodies to high-prevalence blood group antigens are present, the clear identification could be problematic due to unspecific positive (false positive) or overlapping reactions in antibody screening.

Recombinant blood group antigens (rBGA) by imusyn can specifically inhibit antibodies and therefore minimize the risk of incompatible blood transfusions.

### rBGA METHOD

- Preincubation of 2 µl rBGA with 25 µl patient serum: neutralization of specific red cell antibodies
- Serum can be used for indirect antiglobulin test with conventional gel card systems (Grifols DG® Gel Coombs, Bio-Rad ID-Card LISS/Coombs)



### rBGA FEATURES AND ADVANTAGES

- Simple test procedure
- Direct antibody identification
- Antibody detection and identification in one step
- Simple and fast detection and identification of alloantibodies to high-prevalence blood group antigens
- Better resolution of antibody mixtures
- Neutralization of clinically insignificant antibodies to high-prevalence antigens in pretransfusion cross-matching
- Faster and safer treatment of immunized patients
- Easy to implement in routine serology

Article No.	Antigen*	Quantity
004 010 001	<b>C4B*3</b> recombinant Chido blood group protein	One vial à 300 µl
004 010 002	<b>Kn(a)</b> , McC(a), Sl(a), Sl3+ recombinant Knops blood group protein with Kn(a) antigen	One vial à 300 µl
004 010 003	Cr(a+), Tc(a), <b>Dra+</b> , Esa+, IFC+, WES(b), UMC+, GUTI+ recombinant Cromer blood group protein with Dr(a) antigen	One vial à 300 µl
004 010 004	<b>Do(a)</b> , Hy+, Jo(a+) recombinant Dombrock blood group protein with Do(a) antigen	One vial à 300 µl
004 010 005	<b>Do(b)</b> , Hy+, Jo(a+) recombinant Dombrock blood group protein with Do(b) antigen	One vial à 300 µl
004 010 006	<b>Fy(a)</b> recombinant Duffy blood group protein with Fy(a) antigen	One vial à 300 µl
004 010 007	<b>Fy(b)</b> recombinant Duffy blood group protein with Fy(b) antigen	One vial à 300 µl
004 010 008	Js(a), K12+, Ul(a-), K19+, Tou+, K23+, K13+, K22+, K11, <b>Kp(b)</b> , Raz+, Vlan+, <b>K</b> , K14, K18+ recombinant Kell blood group protein with Kp(b) and K antigens	One vial à 300 µl
004 010 009	<b>In(b)</b> recombinant Indian blood group protein with In(b) antigen	One vial à 300 µl
004 010 010	<b>JMH</b> recombinant JMH blood group protein	One vial à 300 µl
004 010 011	Js(a), K12+, Ul(a-), K19+, Tou+, K23+, K13+, K22+, K11, <b>Kp(b)</b> , Raz+, Vlan+, <b>k</b> , K14, K18+ recombinant Kell blood group protein with Kp(b) and k antigens	One vial à 300 µl
004 010 012	<b>Lu(a)</b> , Lu4+, Lu5+, Lu6, Lu8, Lu12+, Lu13+, Lu16+, Lu17+, Lu20+, Lu21+ recombinant Lutheran blood group protein with Lu(a) antigen	One vial à 300 µl
004 010 013	<b>Lu(b)</b> , Lu4+, Lu5+, Lu6, Lu8, Lu12+, Lu13+, Lu16+, Lu17+, Lu20+, Lu21+ recombinant Lutheran blood group protein with Lu(b) antigen	One vial à 300 µl
004 010 014	<b>LW(a)</b> recombinant Landstein-Wiener blood group protein with LW(a) antigen	One vial à 300 µl
004 010 015	<b>C4A*3</b> recombinant Rogers blood group protein	One vial à 300 µl
004 010 016	<b>Sc1</b> , Rd- recombinant Scianna blood group protein with Sc1 antigen	One vial à 300 µl
004 010 017	<b>Xg(a)</b> recombinant Xg blood group protein with Xg(a) antigen	One vial à 300 µl
004 010 018	<b>Yt(a)</b> recombinant Cartwright blood group protein with Yt(a) antigen	One vial à 300 µl

\*The relevant antigens on the recombinant proteins are listed. The serologically tested antigens are highlighted in **bold**.  
 For Research Use Only.

#### References:

Seltsam A, Blasczyk R. Recombinant blood group proteins for use in antibody screening and identification tests. *Curr Opin Hematol* 2009;16:473-9.

Seltsam A, Wagner F, Lambert M, et al. Recombinant blood group proteins facilitate the detection of alloantibodies to high-prevalence antigens and reveal underlying antibodies: results of an international study. *Transfusion* 2014;54:1823-30.

Seltsam A, Blasczyk R. Recombinant blood group proteins in clinical practice - from puzzling to binary antibody testing. *ISBT Science Series* 2016; 11:243-249.



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