

A RARE *KEL**02.17 | *KEL**02N.06(*IVS3+1g>a*) COMPOUND HETEROZYGOUS INDIVIDUAL, PRONE TO ANTI-*KEL*11 IMMUNIZATION

S. Meyer, S. Sigurdardottir, C. Engström, A. Zorbas-Nikos, B.M. Frey, C. Gassner

Blutspende Zürich, Rütistrasse 19, 8952 Schlieren/Zürich
www.blutspendezurich.ch

BLUTSPENDE ZÜRICH
I I I I I

Background

The Kell blood group system includes some of the most immunogenic antigens among blood groups. Beside the well-known antigens Kell(*KEL**01), Kp^a(*KEL**03), and Js^a(*KEL**06), the antithetic antigens *KEL*11/17 further contribute to this list. However, *KEL*17 is considered as very rare, with an approximate frequency of one *KEL**02.17 homozygote among 30'000 Europeans only¹. We recently observed an individual with a rare anti-K11 and describe here its unusual molecular mechanism of anti-K11 sensitization.

Method

Standard serological methods for antigen- and antibody-detection and specification were used. *KEL* genotyping was performed using a commercially available test kit "KELplus" (Inno-Train, Germany) and in house *KEL*11/17 PCR-using Sequence Specific Priming technique (SSP) and *KEL* gene sequencing.

