Unnamed Blood Group Collection

Number of antigens 2

Low prevalence Le^c
Polymorphic Le^d

Terminology

ISBT number 210

Carrier molecule

Glycosphingolipid adsorbed onto RBCs.

Le^c Antigen

Terminology

ISBT number 210001 or 210.1

Occurrence

Most populations 1%

Molecular basis associated with Le^c antigen¹

Gal |β1-3 GIcNAc |β1-3 Gal |β1-4 GIc |β1-1 Ceramide

Comments

Anti-Le^c agglutinates Le(a–b–) RBCs from non-secretors.

Anti-Le^c has been made by humans, and in goats.

Reference

¹ Mollison, P.L., et al., 1997. Blood Transfusion in Clinical Medicine, tenth ed. Blackwell Science, Oxford, UK.

Le^d Antigen

Terminology

ISBT number 210002 or 210.2

Occurrence

Most populations 6%

Molecular basis associated with Led antigen1

$$\begin{aligned} \textbf{Fuc} & \frac{\alpha 1 - 2}{\beta 1 - 3} \textbf{Gal} \\ & | \beta 1 - 3 \\ & \textbf{GlcNAc} \\ & | \beta 1 - 3 \\ & \textbf{Gal} \\ & | \beta 1 - 4 \\ & \textbf{Glc} \\ & | \beta 1 - 1 \\ & \textbf{Ceramide} \\ & \textbf{H type 1} \end{aligned}$$

Comments

Anti-Le^d agglutinates Le(a–b–) RBCs from non-secretors. Anti-Le^d has been made in goats.

Reference

Mollison, P.L., et al., 1997. Blood Transfusion in Clinical Medicine, tenth ed. Blackwell Science, Oxford, UK.