

Anti-LeX [291-2G3-A] Standard Size, 200  $\mu g,$  Ab00495-10.0 View online

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This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG3 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Kappa

Clone Number: 291-2G3-A

Alternative Name(s) of Target: Sialyl Lewis X; SLeX; Stage-specific embryonic antigen 1; SSEA-1; CD15 UniProt Accession Number of Target Protein:

Published Application(s): ICC, IHC

Published Species Reactivity: n/a

Immunogen: This antibody was obtained from mice infected with schistosomes.

**Specificity:** The antibody binds to Lewis X trisaccharide, a carbohydrade pivotal in mediating specific cellcell interactions, with an affinity of  $11 \mu M$ .

**Application Notes:** The antibody binds specifically to Lewis X, a tetrasaccharide carbohydrate bloodgroup antigen involved in cell-to-cell adhesion. The antigen is involved in human fertilisation, as it is present on the terminus of N- and O-glycans of the zona pellucida of egg cells, which are recognised by sperm cells This interaction allows fusion and fertilisation to occur. LeX also plays a role in leukocyte tethering as they travel through the bloodstream as it can interact with L-selectin, P-selectin and E-selectin. LeX is also present on neutrophils, mediating phagocytosis and chemotaxis, and is expressed in patients with Hodgkin disease, B-cell chronic lymphocytic leukemia, acute lymphoblastic leukemias and acute nonlymphocytic leukemia. It is also expressed as SSEA-1 on mouse embryonic stem cells. LeX also plays a role in human resistance to the parasitic disease schistosomiasis.

**Antibody First Published in:** van Roon AM, Pannu NS, Hokke CH, Deelder AM, Abrahams JP. Crystallization and preliminary X-ray analysis of an anti-Lewis X Fab fragment with and without its Lewis X antigen. Acta Crystallogr D Biol Crystallogr. 2003 Jul;59(Pt 7):1306-9. Epub 2003 Jun 27. PMID:12832795 **Note on publication:** Describes the production of the Fab fragment of the monoclonal antibody 291-2G3-A, used to crystallise the structure of Lewis X.

## **Product Form**

**Size:** 200 μg Purified antibody. **Purification:** Protein A affinity purified **Supplied In:** 

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PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at - 20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.