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## **Anti-Human Galectin-1 Polyclonal Antibody**

**CL7768AP**  
**CL7768AP-S**  
**Lot: 166821**

### **DESCRIPTION:**

Galectins are a family of carbohydrate-binding proteins with an affinity for  $\beta$ -galactosides that are involved in a wide range of biological activities. Galectin-1 plays a role in regulating apoptosis, cell proliferation, cell differentiation, and inhibits CD45 protein phosphatase activity<sup>1</sup>. In its oxidized form this protein also participates in the regeneration of the central nervous system after injury<sup>2</sup>.

Galectins in general lack a traditional signal sequence, but are still secreted across the plasma membrane. This non-traditional secretion requires a functional glycan binding site. Galectin-1 can bind glycans both as a monomer and as a homodimer<sup>3</sup>.

### **PRESENTATION:**

100  $\mu$ g (**CL7768AP**) or 20  $\mu$ g (**CL7768AP-S**) purified IgG buffered in PBS and 0.02%  $\text{NaN}_3$ . (Purified from serum via Affinity Chromatography). For maximum recovery of contents, spin down tube before use.

### **STORAGE/STABILITY:**

Store at + 4°C. For long term storage, aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

### **SPECIFICATION:**

Immunogen: 14 amino acid synthetic peptide located within the human galectin-1 sequence.

Specificity: This antibody is specific for human Galectin-1. It is also specific for rat based on sequence identity.

IgG Class: Rabbit IgG

Application: This antibody is suitable for use in ELISA and Western Blot (0.1 – 0.3 $\mu$ g/mL). This antibody has not been tested in other applications.

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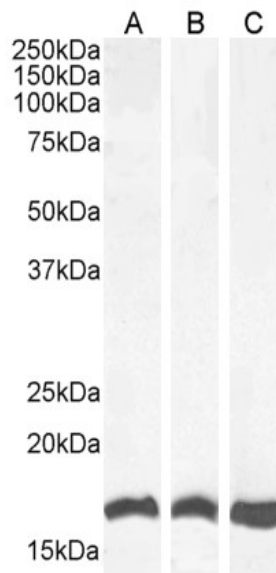
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## **TEST RESULTS:**

### **Western Blot:**



CL7768AP (0.1µg/ml) staining of human placenta (A), heart (B) and kidney (C) lysates (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**N.B.** Appropriate control samples should always be included in any labeling studies.

\* For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.

### **REFERENCES:**

1. Belanis, L., Plowman, S. J., Rotblat, B., Hancock, J. F., & Kloog, Y. (2008). **Galectin-1 Is a Novel Structural Component and a Major Regulator of H-Ras Nanoclusters.** *Molecular Biology of the Cell*, 19(4), 1404–1414.
2. Camby, I., Le Mercier, M., Lefranc, F., Kiss, R.. (2006). **Galectin-1: a small protein with major functions.** *16(11): 137R-157R*
3. Cho, M., Cummings, R. D. (1995). **Galectin-1, a beta-galactoside-binding lectin in Chinese hamster ovary cells. I. Physical and chemical characterization.** *Journal of Biological Chemistry*. 270 (10): 5198–206.

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