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Anti-Human Galectin-7 Polyclonal Antibody

CL7771AP CL7771AP-S Lot: 167121

DESCRIPTION:

Galectins are a family of carbohydrate-binding proteins with an affinity for β-galactosides that are involved in a wide range of biological activities. The primary role of galectin-7 is to regulate cell apoptosis, although it was shown to decrease neuroblastoma cell growth without the appearance of features characteristic for classical apoptosis¹. Galectin-7 also contributes to different events that are associated with epithelial cell differentiation, migration, and development².

Galectins in general lack a traditional signal sequence, but are still secreted across the plasma membrane. Galectin-7 expression is p53-induced, and its behavior as a lectin on the cell surface makes it a protein of interest, as it appears to be capable of reducing cancer cell proliferation in select systems³.

PRESENTATION:

100 μg (CL7771AP) or 20 μg (CL7771AP-S) purified IgG buffered in PBS and 0.02% NaN₃. (Purified from serum via Affinity Chromatography). For maximum recovery of contents, spin down tube before use.

STORAGE/STABILITY:

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

SPECIFICATION:

<u>Immunogen</u>: 14 amino acid synthetic peptide located within the human galectin-7 sequence.

Specificity: This antibody is specific for human galectin-7.

IgG Class: Rabbit IgG

Application: This antibody is suitable for use in ELISA, Western Blot $(0.1 - 0.3 \mu g/mL)$ and Immunohistochemistry with paraffin embedded sections (4 μ g/mL). This antibody has not been tested in other applications.

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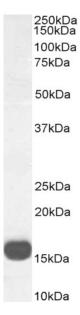
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TEST RESULTS:

Western Blot:



CL7771AP (0.1µg/ml) staining of a human skin lysate (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. Kopitz, J., et al. (2003). **Homodimeric galectin-7 (p53-induced gene 1) is a negative growth regulator for human neuroblastoma cells.** *Oncogene*, 22, 6277.
- 2. Prendergast, G.C., & Jaffee, E. M. (2013). Cancer Immunotherapy: Immune Suppression and Tumor Growth. 550-552.
- 3. Biron-Pain, K., Grosset, A.A., Poirier, F., Gaboury, L., & St-Pierre, Y. (2013). Expression and functions of galectin-7 in human and murine melanomas. *PLoS ONE*, 8(5): e63307.

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