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Anti-Human Galectin-12 Polyclonal Antibody

CL7775AP
CL7775AP-S
Lot: 167521

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. Galectin-12 is one such protein of this vast family that possesses multiple functions. It is required for adipogenic signaling and adipocyte differentiation¹. Galectin-12 is preferentially expressed in adipocytes, and is also localized in peripheral blood leukocytes¹. This protein also plays a role in lipolysis regulation and can be found in lipid droplets². This regulatory action makes it a target protein for the treatment of metabolic diseases that correlate with obesity. Another key function of galectin-12 is its ability to cause cell arrest at the G1 phase and suppress cell growth³. Its participation in the regulation of the cell cycle also makes it a protein of interest for the inhibition of cancer cell proliferation. This protein is thus important for many areas of research in relation to human disease.

PRESENTATION:

100 μ g (**CL7775AP**) or 20 μ g (**CL7775AP-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°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 at the N-terminus of human galectin-12.

Specificity: This antibody is specific for human galectin-12.

IgG Class: Rabbit IgG

Application: This antibody is suitable for use in ELISA, Western Blot (1 – 3 μ g/mL) and Immunohistochemistry with paraffin embedded sections (4 μ g/mL). This antibody has not been tested in other applications.

Continued Overleaf....

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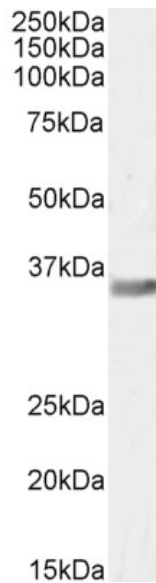
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TEST RESULTS:

Western Blot:



CL7775AP (1 μ g/ml) staining of a K562 cell line lysate (35 μ g 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. Yang, R. Y., Hsu, D. K., Yu, L., Chen, H. Y., & Liu, F. T. (2004). **Galectin-12 is required for adipogenic signaling and adipocyte differentiation.** *The Journal of Biological Chemistry.* 279(28). 29761-29766.
2. Yang, R., Havel, P. J., & Liu, F. (2012). **Galectin-12: A protein associated with lipid droplets that regulates lipid metabolism and energy balance.** *Adipocyte.* 1(2). 96-100.
3. Hotta, K., et al. (2001). **Galectin-12, an Adipose-expressed Galectin-like Molecule Possessing Apoptosis-inducing Activity.** *The Journal of Biological Chemistry.* 276. 34089-34097.

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