

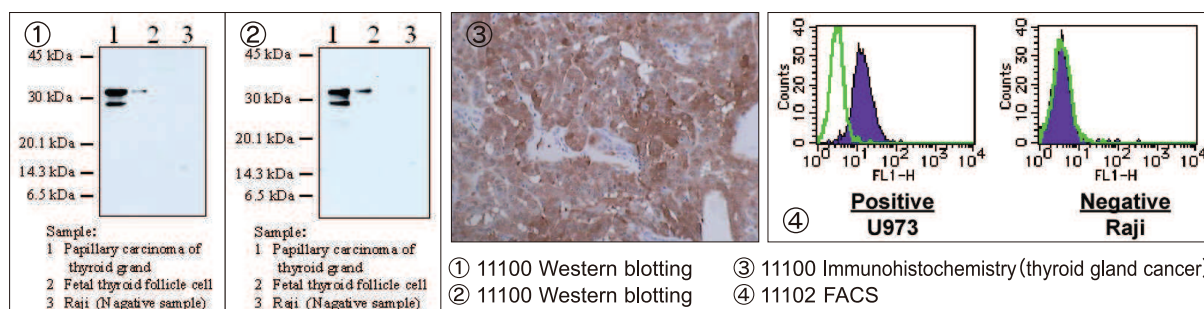
Assay Kit

Code No.	Name	Volume	Assay Range	Incubation Time	Application
27755	Human Galectin-3 Assay Kit - IBL	96 Well	117.19 ~ 7,500 pg/mL	1st incubation, 37°C, 1hr 2nd incubation, 4°C, 30min	Human Serum, EDTA-Plasma, Cell culture supernatant, Cell extract and Tissue extract.

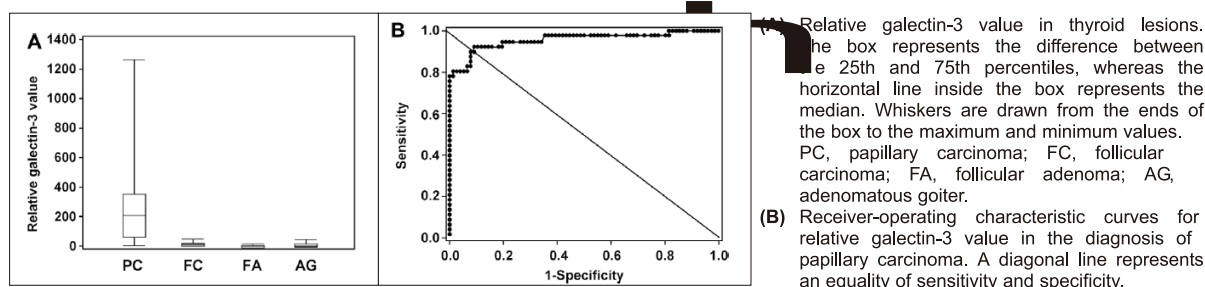
Antibodies

Code No.	Name	Volume	W/B	IHC	Remarks
11100	Anti-Human Galectin-3 (38B2)	Mouse IgG MoAb	100 µg	2 ~ 5 µg/mL	Galectin-3 specific
11102	Anti-Human Galectin-3 (87B5)	Mouse IgG MoAb	100 µg	2 ~ 5 µg/mL	Galectin-3 specific FACS 2 ~ 10 µg/mL

Galectin is widely distributed in nematodes, insects, and porifers, as well as vertebrates, and it has also been found to be present in true fungi. Galectin does not just occur in the cytoplasm, it is also present in the nucleus, on the cell surface, in the extracellular matrix, etc., and it is thought to be involved in many biological phenomena, including development, differentiation, morphogenesis, tumor metastasis, cell death, and RNA splicing. Galectin-3 is a β -galactoside-binding protein that has been named IgE-binding protein, CBP35, CBP30, Mac-2, L-29, L-31, L-34, etc., and structurally it is a chimera-type lectin composed of a sugar-chain-binding domain (galectin domain) and a non-lectin domain. Its biological function is still uncertain, but many studies that should elucidate its function have been performed, and as a result participation of galectin-3 has been demonstrated in the biological phenomena of cell growth, adhesion, metastasis, and apoptosis. For example, a positive correlation has been shown between galectin-3 expression and the degree of malignant transformation in certain types of cell lines. A positive correlation has also recently been shown between galectin-3 expression and degree of malignancy in certain types of malignant tumors, and measurement of galectin-3 is expected to possibly serve as an index of degree of tumor malignancy.



Stratification of thyroid lesions by relative galectin-3 value (ref. 1)



Reference:

- Cytoplasmic and serum galectin-3 in diagnosis of thyroid malignancies. Inohara H, Segawa T, Miyauchi A, Yoshii T, Nakahara S, Raz A, Maeda M, Miyoshi E, Kinoshita N, Yoshida H, Furukawa M, Takenaka Y, Takamura Y, Ito Y, Taniguchi N. Biochem Biophys Res Commun. 2008 Nov 21;376(3):605-10.
- Ochieng J, Platt D, Tait L, Hogan V, Raz T, Carmi P, Raz A. Structure-function relationship of a recombinant human galactoside-binding protein. Biochemistry. 1993 Apr 27;32(16):4455-60.
- van den Brule F, Califice S, Castronovo V. Expression of galectins in cancer: a critical review. Glycoconj J. 2004;19(7-9):537-42.
- Takenaka Y, Fukumori T, Raz A. Galectin-3 and metastasis. Glycoconj J. 2004;19(7-9):543-9.
- Yang RY, Liu FT. Galectins in cell growth and apoptosis. Cell Mol Life Sci. 2003 Feb;60(2):267-76.
- Liu FT, Patterson RJ, Wang JL. Intracellular functions of galectins. Biochim Biophys Acta. 2002 Sep 19;1572(2-3):263-73.

Distributed by:



Immuno-Biological Laboratories, Inc.
8201 Central Ave NE, Suite P
Minneapolis, MN 55432

Toll-Free: 888-523-1246
Email: info@IBL-America.com
Web: www.IBL-America.com