

# Product Datasheet

## Galectin-3 Antibody (B2C10)

### NBP1-42384

Unit Size: 0.05 mg

Store at 4C. Do not freeze.

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**NBP1-42384****Galectin-3 Antibody (B2C10)**

<b>Product Information</b>	
<b>Unit Size</b>	0.05 mg
<b>Concentration</b>	0.1 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	B2C10
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	PBS, 0.1% BSA
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	3958
<b>Gene Symbol</b>	LGALS3
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
<b>Specificity/Sensitivity</b>	The monoclonal antibody B2C10 reacts with galectin-3, a 30 kDa protein. Galectin-3 is a member of the galectin family. The protein is composed of three domains: a small amino-terminal domain, a carboxyl-terminal carbohydrate recognition domain (CRD) and amino-terminal domain containing repeating elements. Galectin-3 is normally distributed in epithelia of many organs and various inflammatory cells, including macrophages, as well as dendritic cells and Kupffer cells. The expression of this lectin is up-regulated during inflammation, cell proliferation, cell differentiation and through trans-activation by viral proteins. The expression is also affected by neoplastic transformation: up-regulated in certain types of lymphomas and thyroid carcinoma, while down-regulated in other types of malignancies, such as colon, breast, ovarian and uterine carcinomas. Galectin-3 has been shown to function through both intracellular and extracellular actions. Related to its intracellular functions, galectin-3 has been identified as a component of heterogeneous nuclear ribonuclear protein (hnRNP), a factor in pre-mRNA splicing, and has been found to control cell cycle and prevent T cell apoptosis. On the other hand, this protein has also been demonstrated to function as extracellular molecule in activating various types of cells, including monocytes/macrophages, mast cells, neutrophils and lymphocytes. Galectin-3 has been shown to mediate cell-cell and cell-extracellular matrix interactions. The monoclonal antibody B2C10 inhibits the binding of 125I-labeled galectin-3 to IgE coated on microtiter plates, the galectin-3's hemagglutination activity and galectin-3-induced superoxide production by human neutrophils. This inhibitory activity of B2C10 is probably the result of its disruption of the self-association process. The epitope of the monoclonal antibody B2C10 is found within the first 45 amino acids of galectin-3. The antibody B2C10 does not react with Galectin-3C and is cross reactive with mouse galectin-3.
<b>Immunogen</b>	Recombinant human Galectin-3

Product Application Details	
<b>Applications</b>	Western Blot, Flow Cytometry, Functional, Immunoassay, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1:100-1:2000, Flow Cytometry 1:10-1:1000, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, Functional, Immunoassay
<b>Application Notes</b>	Furthermore the monoclonal antibody B2C10 is useful for immuno assays and functional studies. For immunohistology, flow cytometry and Western blotting dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50. For functional studies dilutions have to be made according to the amounts of galectin-3 to be inhibited.





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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