

Technical Data Sheet

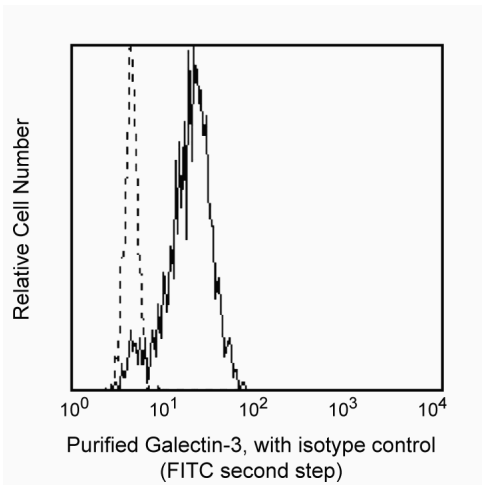
Purified Mouse Anti-Human Galectin-3

Product Information

| | |
|------------------|---|
| Material Number: | 556904 |
| Size: | 0.1 mg |
| Concentration: | 0.5 mg/ml |
| Clone: | B2C10 |
| Isotype: | Mouse IgG1, κ |
| Reactivity: | QC Testing: Human |
| Storage Buffer: | Aqueous buffered solution containing ≤0.09% sodium azide. |

Description

Reacts with Galectin-3, a 30 kDa protein, a member of a newly defined family of β-galactoside-binding animal lectins. It has been previously referred to as IgE-binding protein (εBP) and carbohydrate-binding protein 35 (CBP35). It is expressed on many tissues and cell types. Galectin-3 can be found in the nucleus and/or cytoplasm, on the cell surface and in the extra cellular matrix. Its function has been found to be diverse. It has been reported to be markedly elevated in the nucleus of proliferating cells, suggesting that Galectin-3 may play a role in cell growth regulation. Studies of Galectin-3 on the cell surface have shown it to be a non-integrin, laminin-binding protein, suggesting its role in cell adhesion to basement membranes. Monoclonal antibody B2C10 is suitable for immunohistochemical staining of paraffin-embedded tissue sections.



Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4° C.

Application Notes

Application

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|--|---------------------------|
| Intracellular staining (flow cytometry) | Routinely Tested |
| Immunohistochemistry-formalin (antigen retrieval required) | Tested During Development |

Recommended Assay Procedure:

We recommend using Cytofix/Cytoperm Cat. No. 554714 to fix and permeabilize cells.

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Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|----------------|---|-----------|------------|
| 555746 | Purified Mouse IgG1, κ Isotype Control | 0.1 mg | MOPC-21 |
| 555988 | FITC Goat Anti-Mouse IgG/IgM | 0.5 mg | Polyclonal |
| 554714 | BD Cytotfix/Cytoperm Fixation/Permeablization Kit | 250 tests | (none) |

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

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Cortegano I, del Pozo V, Cárdena B, et al. Galectin-3 down-regulates IL-5 gene expression on different cell types. *J Immunol.* 1998; 161(1):385-389.(Biology)
Liu FT, Hsu DK, Zuberi RI, et al. Modulation of functional properties of galectin-3 by monoclonal antibodies binding to the non-lectin domains. *Biochemistry.* 1996; 35(19):6073-6079.(Biology)
Mey A, Leffler H, Hmama Z, Normier G, Revillard JP. The animal lectin galectin-3 interacts with bacterial lipopolysaccharides via two independent sites. *J Immunol.* 1996; 156(4):1572-1577.(Biology)