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Certificate of Analysis and Data Sheet

Rabbit Anti-Human Galectin-3 Antibody

Catalog No: 130-10090	Isotype: Rabbit IgG	Species: Human	Accession No: P17931
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Description

Galectin-3 is a member of the lectin family, of which 14 mammalian galectins have been identified. Galectin-3 is approximately 30 kDa and, like all galectins, contains a carbohydrate-recognition binding domain (CRD) of about 130 amino acids that enable the specific binding of β -galactosides. Galectin-3 is encoded by a single gene, LGALS3, located on chromosome 14, locus q21-q22. This protein is characterized by an N-terminal proline-rich tandem repeat domain and a single C-terminal carbohydrate recognition domain. Galectin-3/LGALS3 can self-associate through the N-terminal domain allowing it to bind to multivalent saccharide ligands.

Applications

Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1 : 320,000
Western Blotting			*	
Enzyme Immunoassay(EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

Immunogen was recombinant protein from human Galectin-3. This antibody was produced from a rabbit immunized with the immunogen. The IgG fraction was purified from rabbit serum followed by Protein A/G affinity chromatography.

Specificity

The antibody can specifically bind to human Galectin-3. The specificity for binding to recombinant protein, cellular protein and native antigen is not defined. Cross reactivity with mouse or rat Galectin-3 was not tested.

Reconstitution

Product is supplied as a powder obtained from lyophilization of purified antibody in PBS without preservatives. Reconstitute the antibody with sterile 1x PBS to a final concentration of 1 mg/ml.

Storage

Store at 4°C if intended for use within one month, otherwise, store at -20°C to -80°C. The lyophilized antibody is stable for at least 18 months after the date of receipt when stored at -20°C to -80°C. After reconstitution, it can be aliquoted and stored frozen at -20°C to -80°C in a manual defrost freezer for at least 6 months without detectable loss of activity. Upon reconstitution, the antibody can also be stored for 1 month at 4°C. **Please avoid freeze-thaw cycles, as this will lower the activity of the antibody.**

Related products

1. Rabbit Anti-Human Galectin-3 / LGALS3 (cat# DS-PB-02616)
2. Recombinant Human Galectin-3 / LGALS3, E.coli-derived (cat#230-00202)

Reference

1. Dumic J, Dabelic S, Flögel M. (2006). "Galectin-3: an open-ended story." *Biochim Biophys Acta* 1760 (4): 616–635.
2. Liu F, Patterson RJ, Wang JL. (2002). "Intracellular function of galectins." *Biochim Biophys Acta* 1572 (2-3): 263–273.
3. Raimond J, et al. (1997). "Mapping of the galectin-3 gene (LGALS3) to human chromosome 14 at region 14q21—22." *Mamm Genome* 8 (9): 706–707.

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