

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Galectin-10 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human Galectin-1, -2, -3, -4, -7, -8, or -9/Ecalectin is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 561603
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Galectin-10 Met1-Arg142 Accession # Q05315
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Human peripheral blood lymphocytes

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Galectin-10 (also eosinophil lysophospholipase and Charcot-Leyden Crystal protein) is a 16 kDa member of the lectin family of proteins. It is expressed intracellularly by eosinophils, basophils and CD25⁺ Treg cells. Although originally believed to possess lysophospholipase activity, this has been shown to be incorrect. It is known to bind lysophospholipase and its inhibitors, and to bind mannose in a very unusual manner. Human Galectin-10 is 142 amino acids (aa) in length. There is one galectin domain (aa 6-138) that contains two dimerization motifs (aa 6-10 and 131-135). Two molecular weight isoforms of 15 and 14 kDa have been described. Human Galectin-10 has no known structural counterpart in rodents.

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