

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Galectin-9 in direct ELISAs and Western blots. In Western blots, approximately 30% cross-reactivity with recombinant human (rh) Galectin-9 is observed. In direct ELISAs and Western blots, less than 2% cross-reactivity with rhGalect
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse Galectin-9 Ala2-Thr353; aa 148-178 deletion Accession # O08573
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Intracellular Staining by Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.

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. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Galectin-9, also known as Ecalectin, belongs to the Galectin family (S-type lectins) of galactoside-binding proteins. It is a 36-39 kDa protein that lacks a secretion signal sequence, but can be secreted by a non-classical pathway. Galectin-9 is a tandem-repeat Galectin with two Galectin domains joined by a linker region. Two alternative spliced variants, a short and a long isoform, exist. Galectin-9 short isoform is expressed in a variety of tissues and cells, including fibroblasts, hepatocytes, endothelial cells and astrocytes. The long isoform, however, is expressed primarily in the intestine. Galectin-9 binds TIM-3 on Th1 cells, inducing apoptosis. Mouse Galectin-9 shares 69% and 85% amino acid sequence identity with human and rat Galectin-9, respectively.

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