

30-2698AF647: Alexa Fluor 647 conjugated Anti-Galectin-9 Monoclonal Antibody (Clone:9M1-3)

Clonality :	Monoclonal
Clone Name :	9M1-3
Application :	IHC,FACS
Reactivity :	Human,Non-Human Primates
Gene :	Galectin-9
Gene ID :	3965
Uniprot ID :	O00182
Alternative Name :	HUAT; LGalS9A; LEG9
Isotype :	Mouse IgG1 kappa
Immunogen Information :	Recombinant M-type splicing variant of human galectin 9

Description

Galectin-9 is a glycan-binding protein, which is expressed in three main isoforms of 49 aa, 27 aa, and 15 aa. It can be detected on the cell surface, as well as intracellularly, or in a secreted form. On the cell surface, galectin-9 plays roles in contacts with other cells and with extracellular matrix. It is expressed on multiple cell types, but mainly on Treg cells, activated Th cells and some cancers. Its secreted form acts like a cytokine with immunomodulatory and immunosuppressive functions. Massive and inadequate production of galectin-9, associated with some viral infections or cancers, can counteract immune reactions to these illnesses. High levels of galectin-9 expression lead to poor prognosis of cancer patients.

Specificity: The mouse monoclonal antibody 9M1-3 recognizes an epitope within C terminus of human galectin-9, a glycan-binding protein expressed mainly on activated Th cells and FoxP3+ Treg cells.

Product Info

Amount :	100 tests
Purification :	Purified antibody is conjugated with Alexa Fluor 647 NHS ester under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Formulation: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

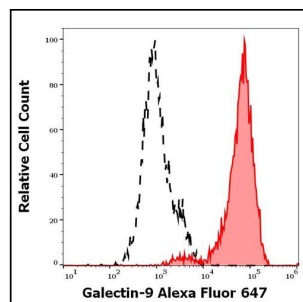


Figure 1: Separation of Jurkat cells stained using anti-human Galectin-9 (9M1-3) Alexa Fluor 647 antibody (4 µl reagent per million cells in 100 µl of cell suspension, red-filled) from HUVEC cells stained using mouse IgG1 isotype control (MOPC-21) Alexa Fluor 647 antibody (concentration in sample 5 µg/ml, same as Galectin-9 Alexa Fluor 647 concentration, black-dashed) in flow cytometry analysis (surface staining).