

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Galectin-10 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Galectin-10 Ser2-Arg142 Accession # Q05315
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

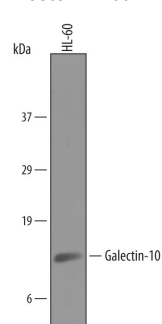
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Intracellular Staining by Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

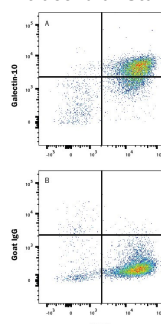
## DATA

### Western Blot



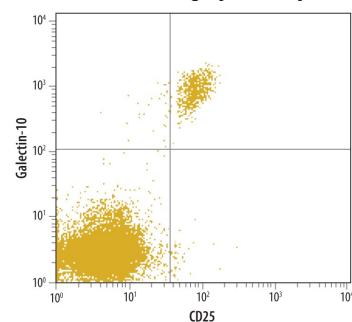
**Detection of Human Galectin-10 by Western Blot.** Western blot shows lysates of HL-60 human acute promyelocytic leukemia cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human Galectin-10 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5447) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for Galectin-10 at approximately 16 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

### Intracellular Staining by Flow Cytometry



**Detection of Galectin-10 in Human Tregs by Flow Cytometry.** Human Tregs were expanded from PBMC using Cloudz Human Treg Expansion Kit (Catalog # CLD006) then stained with (A) Goat Anti-Human Galectin-10 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5447) or (B) Goat IgG Control Antibody (Catalog # AB-108-C) followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107) and Mouse Anti-Human CD25/IL-2 Ra Allophycocyanin-conjugated Monoclonal Antibody (Catalog # FAB1020A). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3/Transcription Factor Fixation & Perm Buffer Kit (Catalog # FC012). Staining was performed using our Staining Intracellular Molecules protocol.

### Intracellular Staining by Flow Cytometry



**Detection of Galectin-10 in Human PBMC lymphocytes by Flow Cytometry.** Human PBMC lymphocytes were stained with Goat Anti-Human Galectin-10 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5447) followed by CFS-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0109) and Mouse Anti-Human CD25/IL-2 Ra Allophycocyanin-conjugated Monoclonal Antibody (Catalog # FAB1020A). Quadrant markers were set based on control antibody staining (Catalog # AB-108-C).

## PREPARATION AND STORAGE

**Reconstitution** Reconstitute at 0.2 mg/mL in sterile PBS.

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.  
\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

**Stability & Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## 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<sup>+</sup> 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 that are not yet characterized. There is no known structural rodent counterpart to human Galectin-10.