

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Galectin-10 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human Galectin-1, -2, -3, -4, -7, -8, -9 and -14 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Galectin-10 Ser2-Arg142 Accession # Q05315
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

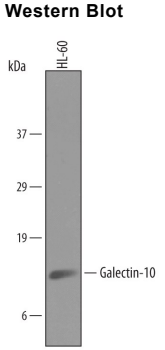
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Intracellular Staining by Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

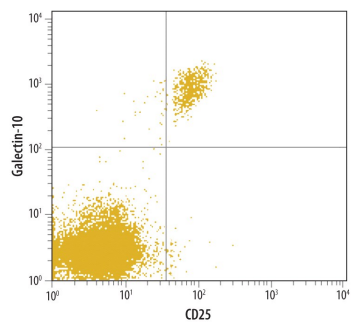
DATA

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 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 Rα 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. <ul style="list-style-type: none"> • 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+ 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.