

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Galectin-9 in direct ELISAs and Western blots. In Western blots, approximately 10% cross-reactivity with recombinant human (rh) Galectin-3 and rhGalectin-4 is observed and less than 2% cross-reactivity with rhGalectin-1, rhGalectin-2, rhGalectin-7, and rhGalectin-8 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Galectin-9
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 either lyophilized or as a 0.2 µm filtered solution in PBS.

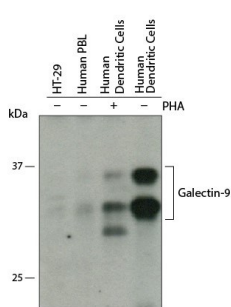
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Immunohistochemistry	0.3-15 µg/mL	See Below

DATA

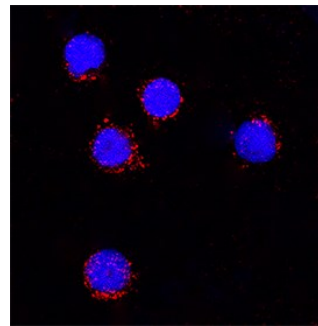
Western Blot



Detection of Human Galectin-9 by Western Blot.

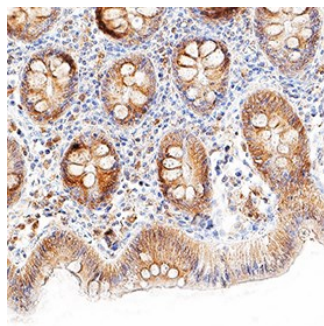
Western blot shows conditioned media from HT-29 human colon adenocarcinoma cell line, human peripheral blood lymphocytes (PBL), and human dendritic cells untreated (-) or treated (+) with 10 µg/mL PHA for 6 days. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human Galectin-9 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2045) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). Specific bands were detected for Galectin-9 at approximately 36 and 40 kDa. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



Galectin-9 in Human PBMCs. Galectin-9 was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) treated with Calcium Ionomycin and PMA using Goat Anti-Human Galectin-9 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2045) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

Immunohistochemistry



Galectin-9 in Human Colon. Galectin-9 was detected in immersion fixed paraffin-embedded sections of human colon using Goat Anti-Human Galectin-9 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2045) at 0.3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC004). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to epithelial cells. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

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-9 (also known as Ecalectin and UAT) is a 40 kDa β -galactosidase binding lectin that belongs to a tandem repeat group of Galectins. Activated cells such as T cells, PMNs, astrocytes, fibroblasts and endothelial cells can express Galectin-9, but its release requires select MMPs. Human to mouse, there is 69% aa sequence identity for Galectin-9.