Human Galectin-9 Antibody
Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2045

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 E. coli-derived recombinant human Galectin-9
Formulation Lyophilized from a 0.2 μg/mL 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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Recommended Concentration</th>
<th>Sample</th>
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</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>1 μg/mL</td>
<td>See Below</td>
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<tr>
<td>Immunocytochemistry</td>
<td>5-15 μg/mL</td>
<td>See Below</td>
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<tr>
<td>Immunohistochemistry</td>
<td>0.3-15 μg/mL</td>
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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 (PB-L), and human dendritic cells untreated (-) or treated (+) with 10 μg/mL PMA 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 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 0.3 μg/mL for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # V004). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm. 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.
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.

Alternate Catalog Numbers:
AF2045-200
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.