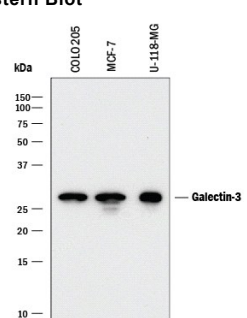
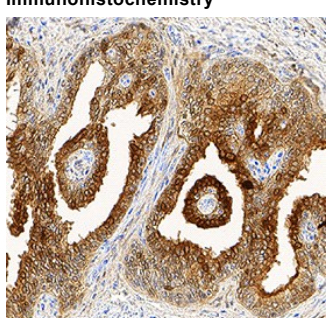
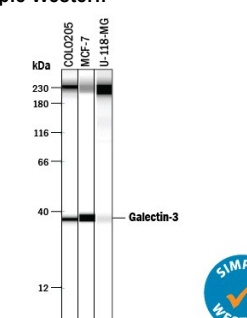



DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Galectin-3 in ELISAs. In sandwich immunoassays, no cross-reactivity with recombinant human Galectin-1, 2, 4, 7, 8, or 10 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 194805
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Galectin-3 Ala2-Ile250 Accession # P17931.5
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. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	Recommended Concentration	Sample
Western Blot	0.2 µg/mL	See Below
Immunohistochemistry	1-25 µg/mL	See Below
Simple Western	10 µg/mL	See Below
Human Galectin-3 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Human Galectin-3 Antibody (Catalog # MAB11541)
ELISA Detection	0.1-0.4 µg/mL	Human Galectin-3 Biotinylated Antibody (Catalog # BAF1154)
Standard		Recombinant Human Galectin-3 (Catalog # 1154-GA)

DATA	
<p>Western Blot</p>  <p>Detection of Human Galectin-3 by Western Blot. Western blot shows lysates of COLO 205 human colorectal adenocarcinoma cell line, MCF-7 human breast cancer cell line, and U-118-MG human glioblastoma/astrocytoma cell line. PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Human Galectin-3 Monoclonal Antibody (Catalog # MAB11541) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Galectin-3 at approximately 28 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>Galectin-3 in Human Prostate Cancer Tissue. Galectin-3 was detected in immersion fixed paraffin-embedded sections of human prostate cancer tissue using Mouse Anti-Human Galectin-3 Monoclonal Antibody (Catalog # MAB11541) at 1.7 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm and plasma membrane in epithelial cells. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.</p>

<p>Simple Western</p>  <p>Detection of Human Galectin-3 by Simple Western™. Simple Western lane view shows lysates of COLO 205 human colorectal adenocarcinoma cell line, MCF-7 human breast cancer cell line, and U-118-MG human glioblastoma/astrocytoma cell line, loaded at 0.2 mg/mL. A specific band was detected for Galectin-3 at approximately 38 kDa (as indicated) using 10 µg/mL of Mouse Anti-Human Galectin-3 Monoclonal Antibody (Catalog # MAB11541). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system. Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody.</p> 
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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-3, also known as Mac-2, L29, CBP35 and εBP, is a member of a large family of carbohydrate-binding proteins with specificity for N-acetyl-lactosamine-containing glycoproteins. At least 14 mammalian galectins, which share structural similarities in their carbohydrate recognition domains (CRD), have been identified to date. Galectin-3 is expressed in tumor cells, macrophages, activated T cells, osteoclasts, epithelial cells and fibroblasts.