

## Galectin-1 / Human Placental Lactogen (hPL) Antibody

Mouse Monoclonal Antibody [Clone GAL1/1831]

Catalog No	Format	Size
3956-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3956-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3956-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

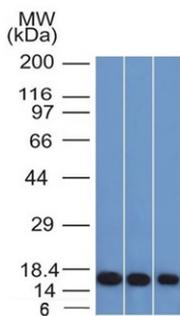
Applications	Tested Dillution	Note
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

<b>Clone</b>	GAL1/1831
<b>Gene Name</b>	LGALS1
<b>Immunogen</b>	Recombinant fragment (around aa12-108) of human Galectin-1 protein (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Lambda
<b>Mol. Weight of Antigen</b>	14kDa
<b>Cellular Localization</b>	Cytoplasm, Extracellular matrix, Extracellular space, Secreted
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Brain or Heart., HeLa, JEG-3, K562 or 293 cells. Prostate, Kidney, Placenta, Skin, Spleen, Stomach

\*Optimal dilution for a specific application should be determined.

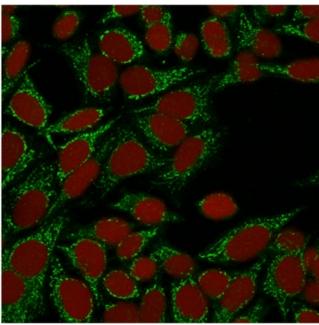
### Product Images for Galectin-1 / Human Placental Lactogen (hPL) Antibody



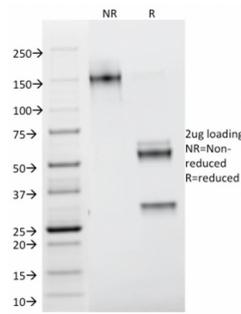
Western Blot of HeLa, K562 and 293 cell lysates Galectin-1 Monospecific Mouse Monoclonal Antibody (GAL1/1831).



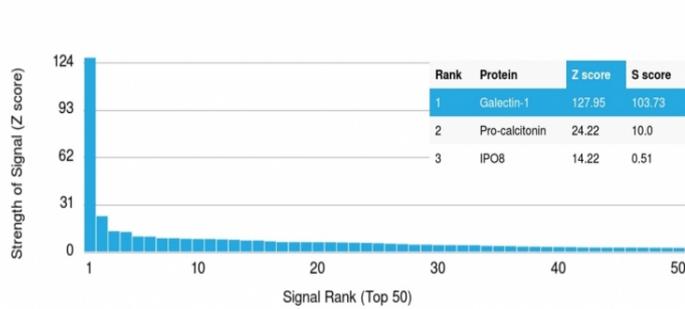
Western Blot Analysis of HeLa cell lysate using Galectin-1 Monospecific Mouse Monoclonal Antibody (GAL1/1831).



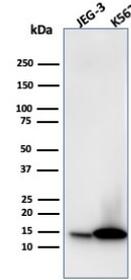
Confocal immunofluorescence image of HeLa cells using Galectin-1 Monospecific Mouse Monoclonal Antibody (GAL1/1831). Green (CF488) and Reddot is used to label the nuclei Red.



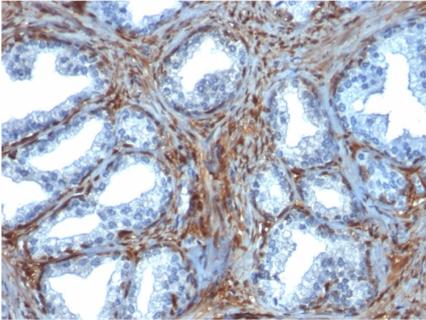
SDS-PAGE Analysis Purified Galectin-1 Monospecific Mouse Monoclonal Antibody (GAL1/1831). Confirmation of Integrity and Purity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteins using Galectin-1 Monospecific Mouse Monoclonal Antibody (GAL1/1831). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAB) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAB to its intended target. A MAB is considered to be specific to its intended target, if the MAB has an S-score of at least 2.5. For example, if a MAB binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAB to protein X is equal to 29.



Western Blot Analysis of JEG-3 and K562 cell lysate using Galectin-1 Monospecific Mouse Monoclonal Antibody (GAL1/1831).



Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with Galectin-1 Monospecific Mouse Monoclonal Antibody (GAL1/1831).

### **Specificity & Comments**

Galectin-1 is a member of the beta-galactoside-binding family and is a dimeric protein of 14kD participating in a variety of normal and pathological processes, including cancer progression. Galectin-1 can affect the proliferation of normal and malignant cells. Inhibition of cell growth is observed in a lactose-dependent manner as lower concentrations of the lectin stimulate cell proliferation. Galectin-1 may also be implicated in the induction of apoptosis of activated T cells through the binding of exogenous galectin-1 to CD45 molecules present on the surface of lymphocytes. Galectin-1, reported to be present either at the surface of cancer cells or accumulated around these cells could act as an immunological shield to protect against a T cell immune response and provide an advantage for survival.

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### **Limitations and Warranty**

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### **Supplied As**

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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### **Storage and Stability**

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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### **Research Areas**

Apoptosis, Autophagy, Cardiovascular, Immuno Oncology

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