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	200ug/ml
3956-MSM1-P1	Purified Ab with BSA and Azide	200ug/ml
3956-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

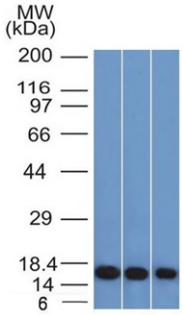
Applications	Tested Dillution
Immunofluorescence (IF)	1-3ug/ml
Immunohistochemistry (IHC)	1-2ug/ml
Western Blot (WB)	2-4ug/ml

Product Details

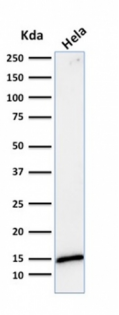
Clone	GAL1/1831
Gene Name	LGALS1
Immunogen	Recombinant fragment (around aa12-108) of human Galectin-1 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Lambda
Mol. Weight of Antigen	14kDa
Cellular Localization	Cytoplasm, Extracellular matrix, Extracellular space, Secreted
Species Reactivity	Human
Positive Control	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.*

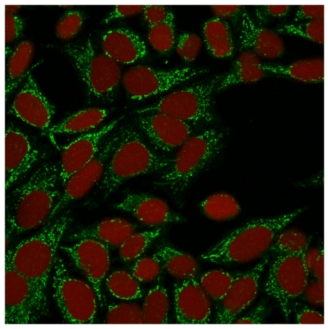
Product Images for Galectin-1 / Human Placental Lactogen (hPL) Antibody



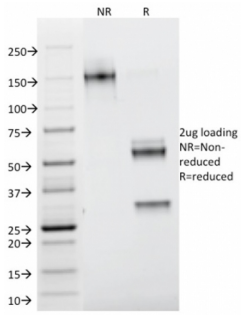
Western Blot of HeLa, K562 and 293 cell lysates Galectin-1 Monospecific Mouse Monoclonal Antibody (GAL1/1831).



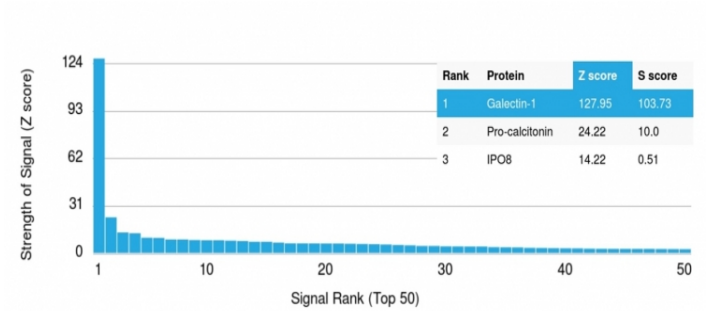
Western Blot Analysis of HeLa cell lysate using Galectin-1 Monospecific Mouse Monoclonal Antibody (GAL1/1831).



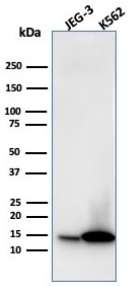
Confocal immunofluorescence image of HeLa cells using Galectin-1 Monospecific Mouse Monoclonal Antibody (GAL1/1831). Green (CF488) and Reddot is used to label the nuclei Red.



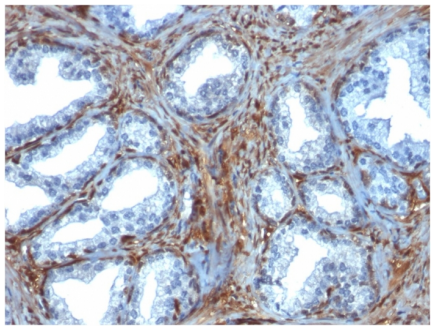
SDS-PAGE Analysis Purified Galectin-1 Monospecific Mouse Monoclonal Antibody (GAL1/1831). Confirmation of Integrity and Purity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing 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 HuProtTM 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 HuProtTM 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 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.

Research Areas

Apoptosis, Autophagy, Cardiovascular, Immuno Oncology

Known Applications & Suggested Dilutions

Western Blot (1-2ug/ml) | ELISA (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA) | Immunofluorescence (1-2ug/ml) | Western Blot (1-2ug/ml) | Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 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&degC followed by cooling at RT for 20 minutes) | Optimal dilution for a specific application should be determined.

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.

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.

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.