

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

Rabbit Monoclonal Antibody [Clone GAL1/2499R]

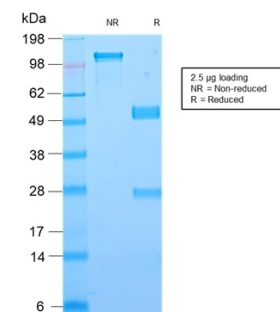
Catalog No	Format	Size
3956-RBM3-P0	Purified Ab with BSA and Azide	200ug/ml
3956-RBM3-P1	Purified Ab with BSA and Azide	200ug/ml
3956-RBM3-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

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

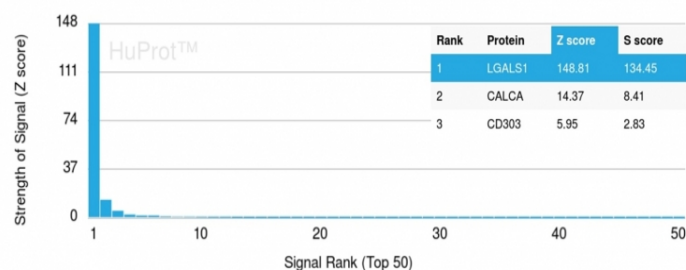
Product Details	
Clone	GAL1/2499R
Gene Name	LGALS1
Immunogen	Recombinant fragment (around aa 12-108) of human Galectin-1 protein (exact sequence is proprietary)
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	14kDa
Cellular Localization	Cytoplasm, Extracellular 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.*

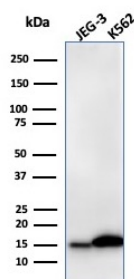
Product Images for Recombinant Galectin-1 / Human Placental Lactogen (hPL) Antibody



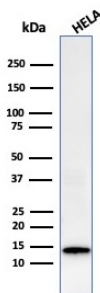
SDS-PAGE Analysis Purified Galectin-1 Monospecific Recombinant Rabbit Monoclonal Antibody (GAL1/2499R). Confirmation of Purity and Integrity of Antibody.



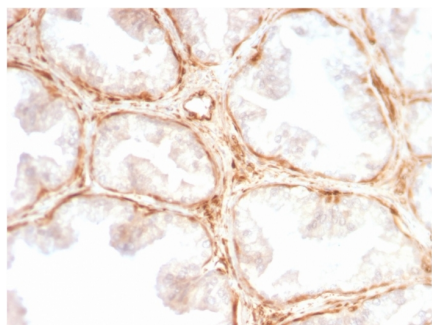
Analysis of Protein Array containing more than 19,000 full-length human proteins using Galectin-1 Monospecific Recombinant Rabbit Monoclonal Antibody (GAL1/2499R) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged 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 Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody 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 Monoclonal Antibody to protein X is equal to 29.



Western Blot Analysis of JEG-3 and K562 cell lysate using Galectin-1 Monospecific Recombinant Rabbit Monoclonal Antibody (GAL1/2499R).



Western Blot Analysis of HeLa cell lysate using Galectin-1 Monospecific Recombinant Rabbit Monoclonal Antibody (GAL1/2499R).



Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with Galectin-1 Monospecific Recombinant Rabbit Monoclonal Antibody (GAL1/2499R).

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) | 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 95degC followed by cooling at RT for 20 minutes) | Optimal dilution for a specific application should be determined.

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.

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.