

**Product Name: KD-Validated Galectin 1 Recombinant Rabbit Monoclonal Antibody**  
**Catalog #: KVA01053**

For research use only.

## Summary

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Rabbit                                                                      |
| <b>Application</b>  | WB,FCM,ICC,IHC-P                                                            |
| <b>Reactivity</b>   | Human,Mouse,Rat                                                             |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Rabbit IgG                                                                  |
| <b>Clonality</b>    | Rabbit mAb                                                                  |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

## Application

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200 |
| <b>Molecular Weight</b> | Calculated MW: 14.7kDa                                                     |

## Antigen Information

|                          |                                                                                                                                                                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | LGALS1<br>LGALS1; Galectin 1; GBP; Lectin, Galactoside-Binding, Soluble, 1; Beta-Galactoside-Binding Lectin L-14-I; Putative MAPK-Activating Protein PM12; 14 KDa Laminin-Binding Protein;                                             |
| <b>Alternative Names</b> | Lactose-Binding Lectin 1; S-Lac Lectin 1; 14 KDa Lectin; Galectin-1; Galaptin; HLBP14; Gal-1; HBL; HPL; Epididymis Secretory Sperm Binding Protein; Beta-Galactoside-Binding Protein 14kDa; Lectin Galactoside-Binding Soluble 1; GAL1 |
| <b>Gene ID</b>           | 3956.0                                                                                                                                                                                                                                 |
| <b>SwissProt ID</b>      | P09382                                                                                                                                                                                                                                 |
| <b>Immunogen</b>         | A synthesized peptide derived from human Galectin 1                                                                                                                                                                                    |

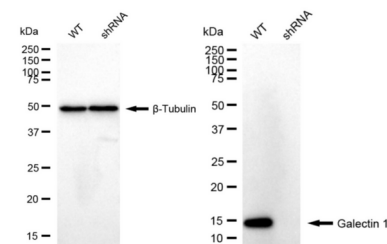
## Background

The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. This gene product may act as an autocrine negative growth factor that regulates cell proliferation. [provided by RefSeq, Jul 2008]

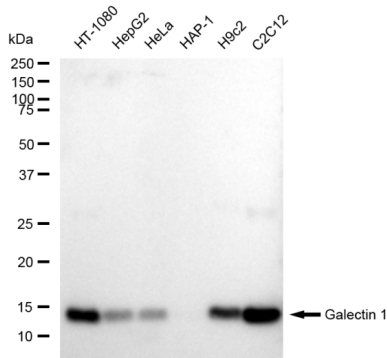
## Research Area

Cell Biology,Cancer

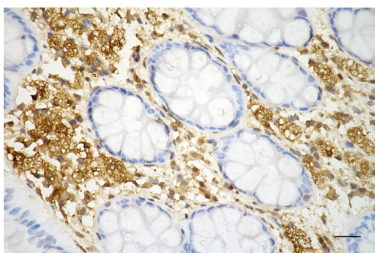
## Image Data



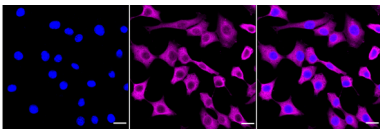
Western blotting analysis using galectin 1 antibody (KVA01053). Galectin 1 expression in wild type (WT) and galectin 1 (LGALS1) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with galectin 1 antibody (KVA01053, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



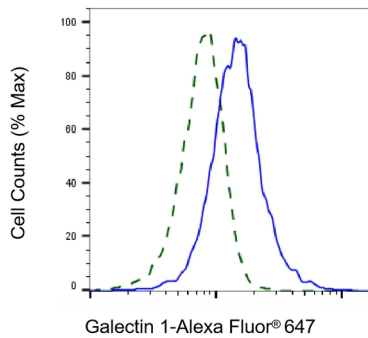
Western blotting analysis using Galectin 1 antibody (KVA01053). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Galectin 1 antibody (KVA01053, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



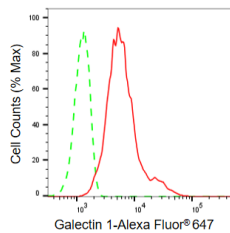
Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using galectin 1 antibody (KVA01053, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of C2C12 cells with Galectin 1 antibody (KVA01053, 1:1,000). Nuclei were stained blue with DAPI; Galectin 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.



Validation of Galectin 1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Galectin 1 antibody (KVA01053, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Galectin 1 expression in C2C12 cells using Galectin 1 antibody (KVA01053, 1:2,000). Green, isotype control; red, Galectin 1.