

# Anti-Galectin-4 Picoband Antibody

Catalog # ABO12637

## Product Information

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|--------------------------|-------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                        |
| <b>Primary Accession</b> | <a href="#">P56470</a>                                                                    |
| <b>Host</b>              | Rabbit                                                                                    |
| <b>Reactivity</b>        | Human                                                                                     |
| <b>Clonality</b>         | Polyclonal                                                                                |
| <b>Format</b>            | Lyophilized                                                                               |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Galectin-4(LGALS4) detection. Tested with WB in Human. |

**Reconstitution** Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

## Additional Information

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| <b>Gene ID</b>             | 3960                                                                                                                                                                                                          |
| <b>Other Names</b>         | Galectin-4, Gal-4, Antigen NY-CO-27, L-36 lactose-binding protein, L36LBP, Lactose-binding lectin 4, LGALS4                                                                                                   |
| <b>Calculated MW</b>       | 35941                                                                                                                                                                                                         |
| <b>Application Details</b> | Western blot, 0.1-0.5 µg/ml, Human                                                                                                                                                                            |
| <b>Source</b>              | Eukaryota                                                                                                                                                                                                     |
| <b>Protein Name</b>        | Galectin-4                                                                                                                                                                                                    |
| <b>Contents</b>            | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.                                                                                                                                           |
| <b>Immunogen</b>           | A synthetic peptide corresponding to a sequence at the C-terminus of human GAL4 (283-320aa DRFKVYANGQHLFDFAHRLSAFQRVDTLEIQGDVTLISY), different from the related mouse and rat sequences by seven amino acids. |
| <b>Purification</b>        | Immunogen affinity purified.                                                                                                                                                                                  |
| <b>Cross Reactivity</b>    | No cross reactivity with other proteins                                                                                                                                                                       |
| <b>Storage</b>             | At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.                            |

## Protein Information

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|-----------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>     | LGALS4                                                                                                            |
| <b>Function</b> | Galectin that binds lactose and a related range of sugars. May be involved in the assembly of adherens junctions. |

## Background

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Galectin-4 is a protein that in humans is encoded by the LGALS4 gene. This gene is mapped to chromosome 19q13.2 based on an alignment of the LGALS4 sequence. The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. LGALS4 is an S-type lectin that is strongly underexpressed in colorectal cancer. The 323-amino acid LGALS4 protein contains 2 homologous, approximately 150-amino acid carbohydrate recognition domains and all amino acids typically conserved in galectins.

## Images

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Western blot analysis of GAL4 expression in SW620 whole cell lysates (lane 1) and COLO320 whole cell lysates (lane 2). GAL4 at 39KD was detected using rabbit anti-GAL4 Antigen Affinity purified polyclonal antibody (Catalog # ABO12637) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

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