

## Human GAL3 Antibody Pair Set

|                    |   |                     |       |
|--------------------|---|---------------------|-------|
| <b>Catalog No.</b> | E-KAB-0168  | <b>Applications</b> | ELISA |
| <b>Synonyms</b>    | LGALS3, CBP35, GALBP, GALIG, L31, LGALS2, MAC2, Lectin, Galactoside-Binding Soluble |                     |       |
|                    | 3   |                     |       |

### Kit components & Storage

| Title                                     | Specifications | Storage   |
|---|----------------|---|
| Human GAL3 Capture Antibody               | 1 vial, 100 µg | Store at -20°C for one year.<br>Avoid freeze / thaw cycles. |
| Human GAL3 Detection Antibody<br>(Biotin) | 1 vial, 50 µL  | Store at -20°C for one year.<br>Avoid freeze / thaw cycles. |

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

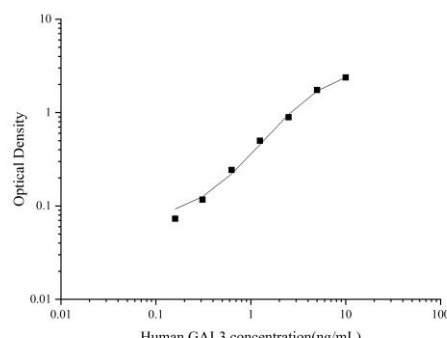
### Product Information

| Items                    |               | Characteristic (E-KAB-0168)                      |   |
|--------------------------|---------------|--|---|
|                          |               | Human GAL3 Capture Antibody                      | Human GAL3 Detection Antibody<br>(Biotin)                               |
| Immunogen<br>Information | Immunogen     | Recombinant Human GAL3 protein                   | Recombinant Human GAL3 protein  |
|                          | Swissprot     | P17931   |   |
| Product details          | Reactivity    | Human  | Human   |
|                          | Host          | Mouse  | Goat  |
|                          | Conjugation   | Unconjugated                                     | Biotin  |
|                          | Concentration | 0.5mg/mL   | /   |
|                          | Buffer        | PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4 | PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4 |
|                          | Purify        | Protein A  | Antigen Affinity  |
|                          | Specificity   | Detects Human GAL3 in ELISAs.                    |   |

### For Research Use Only

## Applications

### Human GAL3 Sandwich ELISA Assay:

|                                  | Recommended Concentration/Dilution | Reagent                                | Images   |                                  |                 |     |      |     |      |     |      |   |     |   |     |   |     |    |     |
|----------------------------------|------------------------------------|--|--|----------------------------------|-----------------|-----|------|-----|------|-----|------|---|-----|---|-----|---|-----|----|-----|
| ELISA Capture                    | 0.5-4µg/mL                         | Human GAL3 Capture Antibody            |  <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Human GAL3 concentration (ng/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>0.1</td><td>0.08</td></tr><tr><td>0.2</td><td>0.12</td></tr><tr><td>0.5</td><td>0.25</td></tr><tr><td>1</td><td>0.5</td></tr><tr><td>2</td><td>1.0</td></tr><tr><td>5</td><td>2.5</td></tr><tr><td>10</td><td>4.0</td></tr></tbody></table> | Human GAL3 concentration (ng/mL) | Optical Density | 0.1 | 0.08 | 0.2 | 0.12 | 0.5 | 0.25 | 1 | 0.5 | 2 | 1.0 | 5 | 2.5 | 10 | 4.0 |
| Human GAL3 concentration (ng/mL) | Optical Density                    |  |  |                                  |                 |     |      |     |      |     |      |   |     |   |     |   |     |    |     |
| 0.1                              | 0.08                               |  |  |                                  |                 |     |      |     |      |     |      |   |     |   |     |   |     |    |     |
| 0.2                              | 0.12                               |  |  |                                  |                 |     |      |     |      |     |      |   |     |   |     |   |     |    |     |
| 0.5                              | 0.25                               |  |  |                                  |                 |     |      |     |      |     |      |   |     |   |     |   |     |    |     |
| 1                                | 0.5                                |  |  |                                  |                 |     |      |     |      |     |      |   |     |   |     |   |     |    |     |
| 2                                | 1.0                                |  |  |                                  |                 |     |      |     |      |     |      |   |     |   |     |   |     |    |     |
| 5                                | 2.5                                |  |  |                                  |                 |     |      |     |      |     |      |   |     |   |     |   |     |    |     |
| 10                               | 4.0                                |  |  |                                  |                 |     |      |     |      |     |      |   |     |   |     |   |     |    |     |
| ELISA Detection                  | 1:1000-1:10000                     | Human GAL3 Detection Antibody (Biotin) |  |                                  |                 |     |      |     |      |     |      |   |     |   |     |   |     |    |     |

**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## Background

Galactose-specific lectin which binds IgE. May mediate with the alpha-3,beta-1 integrin the stimulation by CSPG4 of endothelial cells migration. Together with DMBT1,required for terminal differentiation of columnar epithelial cells during early embryogenesis.In the nucleus: acts as a pre-mRNA splicing factor. Involved in acute inflammatory responses including neutrophil activation and adhesion,chemoattraction of monocytes macrophages,opsonization of apoptotic neutrophils,and activation of mast cells. Together with TRIM16,coordinates the recognition of membrane damage with mobilization of the core autophagy regulators ATG16L1 and BECN1 in response to damaged endomembranes.

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