

## 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. Avoid freeze / thaw cycles.
Human GAL3 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

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

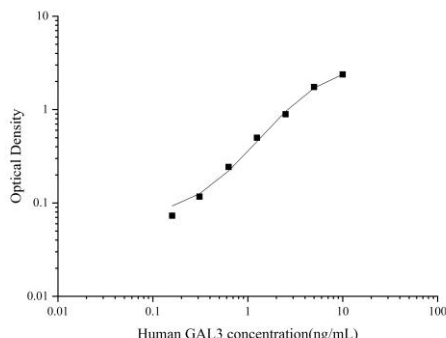
### Product Information

Items		Characteristic (E-KAB-0168)	
		Human GAL3 Capture Antibody	Human GAL3 Detection Antibody (Biotin)
Immunogen 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	 <p>The graph is a log-log plot of Optical Density versus Human GAL3 concentration (ng/mL). The x-axis ranges from 0.01 to 100 ng/mL, and the y-axis ranges from 0.01 to 10. The data points show a clear upward trend, indicating that as the concentration of Human GAL3 increases, the optical density also increases. The curve is approximately linear on this log-log scale, suggesting a power-law relationship between the two variables.</p> <table border="1"> <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>0.4</td> </tr> <tr> <td>2</td> <td>0.7</td> </tr> <tr> <td>5</td> <td>1.2</td> </tr> <tr> <td>10</td> <td>1.8</td> </tr> </tbody> </table>	Human GAL3 concentration (ng/mL)	Optical Density	0.1	0.08	0.2	0.12	0.5	0.25	1	0.4	2	0.7	5	1.2	10	1.8
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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.