

## Rat GAL1 Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0381	<b>Applications</b>	ELISA
<b>Synonyms</b>	LGALS1, GBP, Lectin, Galactoside-Binding Soluble 1		

### Kit components & Storage

Title	Specifications	Storage
Rat GAL1 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Rat GAL1 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

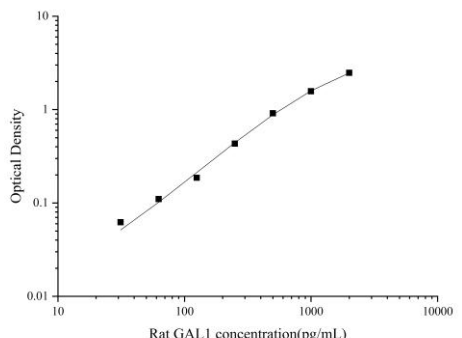
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0381)	
		Rat GAL1 Capture Antibody	Rat GAL1 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat GAL1 protein	Recombinant Rat GAL1 protein
	Swissprot	P11762	
Product details	Reactivity	Rat	Rat
	Host	Rabbit	Rabbit
	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	Protein A & Antigen Affinity
	Specificity	Detects Rat GAL1 in ELISAs.	

## Applications

### Rat GAL1 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images										
ELISA Capture	0.5-4µg/mL	Rat GAL1 Capture Antibody	 <p>The graph displays a standard curve for the Rat GAL1 Sandwich ELISA Assay. The x-axis represents Rat GAL1 concentration in pg/mL on a logarithmic scale from 10 to 10000. The y-axis represents Optical Density on a logarithmic scale from 0.01 to 10. The data points form a straight line, indicating a linear relationship between the concentration of Rat GAL1 and the resulting optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Rat GAL1 concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.05</td> </tr> <tr> <td>100</td> <td>0.2</td> </tr> <tr> <td>1000</td> <td>0.8</td> </tr> <tr> <td>10000</td> <td>3.0</td> </tr> </tbody> </table>	Rat GAL1 concentration (pg/mL)	Optical Density	10	0.05	100	0.2	1000	0.8	10000	3.0
Rat GAL1 concentration (pg/mL)	Optical Density												
10	0.05												
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10000	3.0												
ELISA Detection	1:1000-1:10000	Rat GAL1 Detection Antibody (Biotin)											

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

## Background

Galectins are a family of animal lectins defined by shared characteristic amino-acid sequences and affinity for  $\beta$ -galactose-containing oligosaccharides. Galectin-1 contains one carbohydrate recognition domain (CRD) and occurs as a monomer as well as a non-covalent homodimer. It is differentially expressed by various normal and pathological tissues. Galectin-1 is a multifunctional protein that is involved in cell adhesion, migration, proliferation, apoptosis, inflammation, tumour transformation and growth