

GALECTIN-3 MONOCLONAL ANTIBODIES

Abbreviation	Gal-3 LGALS3
Specificity	Human Galectin 3
Accession Number	P17931
Host Species	Mouse

Application	ELISA Assays, Western Blot, Academic Research
Potential Application	Lateral Flow Assays
Target Marker - Function in Disease	<p>Galectin-3 is a 26kDa protein encoded by the LGALS3 gene. It is from the Galectin family of closely related proteins. Galectin-3 has been identified as a potential biomarker for heart failure, with current immunodiagnostic kits on the market.¹ It has also shown potential as a biomarker for fibrosis and a variety of cancer types.²</p> <p>Elevated levels of Galectin-3 have been found in fibrotic conditions such as cirrhosis, idiopathic lung fibrosis, pancreatitis and renal failure.</p> <p>In normal human hearts the expression of Galectin-3 is low. However, research has suggested that as heart disease progresses; Galectin-3 becomes rapidly and significantly up-regulated.</p>
References	<p>¹ Analytical evaluation of the automated galectin-3 assay on the Abbott ARCHITECT immunoassay instruments Gaze, D et al., Clin. Chem. Lab Med. (2014) 52 (6); 919-26</p> <p>² Galectin-3 Is a Pre-surgical Marker of Human Thyroid Carcinoma. Orlandi, F et al., Cancer Res, (1998) 58; 3015</p>

WHY BBI?

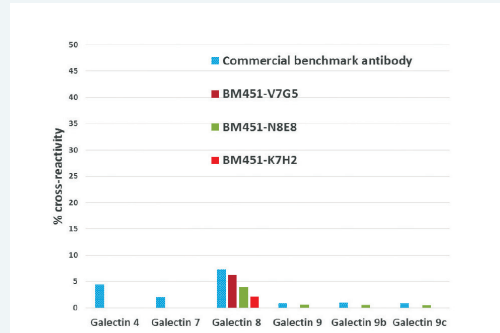
- + Very **low cross-reactivity** with closely related Galectin proteins
- + Save time and money using our Galectin-3 antibody matched pairs, reducing the number of antibodies you need to evaluate
- + The antibodies have been tested in **sandwich ELISA**, including in a **human serum matrix**
- + Antibodies work together with BBI's **Galectin 3 antigen P734-1**
- + **Highly sensitive**; Galectin-3 is detectable at levels as low as 0.025 ng/ml

Order your evaluation sample today www.bbisolutions.com

Characterisation

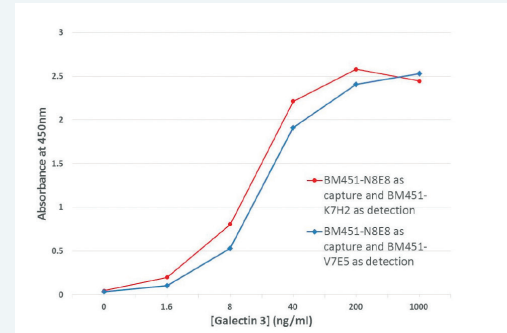
Western Blot

Galectin-3 antibodies exhibit minimal cross-reactivity with the most closely related Galectin family proteins relative to their reactivity with Galectin-3 (P734-1).



Sandwich ELISA

Dilution curves of recombinant human Galectin-3 (P734-1) in sandwich ELISA.



Lower Limits of Detection

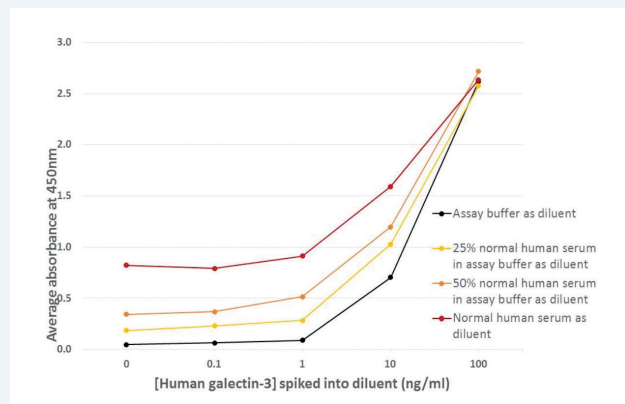
Lower limits of detection were 0.025 ng/ml for the pairing of BM451-N8E8 with BM451-K7H2 and 0.035 ng/ml for the pairing of BM451-N8E8 with BM451-V7G5.

Characterisation

Human Serum Testing

Signal decreases as the serum dilution increases. Sandwich ELISA dilution curves of recombinant human Galectin-3 in different concentrations of normal human serum, using BM451-N8E8 as the capture antibody and BM451-K7H2 as the detection antibody.

It is likely that the serum sample contained some endogenous Galectin-3.



Dispensations

1mg. Bulk amounts available on request.

ORDERING DETAILS – USE THE FOLLOWING CODES WHEN ORDERING

Product	Code	Description
Galectin-3 Monoclonal	BM451-V7G5	Recommended for use in Sandwich ELISA. Use as the detection antibody with BM451-N8E8 as the capture antibody.
Galectin-3 Monoclonal	BM451-N8E8	Recommended for use in Sandwich ELISA. Used as the capture antibody with either BM451-V7G5 or BM451-K7H2 as the detection antibody.
Galectin-3 Monoclonal	BM451-K7H2	Recommended for use in Sandwich ELISA. Use as the detection antibody with BM451-N8E8 as the capture antibody.

Related Products

Product	Code	Description
Recombinant Human Galectin-3 Antigen	P734-1	>96% pure supplied lyophilised Expressed in <i>E. coli</i> .

Order a sample today sales@bbisolutions.com

Int: +44 (0) 2920 767 499 USA: 1-800-423-8199 China: +852 3552 2996