

Datasheet for KOA0450**Human Galectin-3 - LGALS3 ELISA Kit****Overview**

Description:	Human Galectin-3/LGALS3 AccuSignal ELISA Kit - KOA0450
Item No.:	KOA0450
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	156 pg/ml - 10000 pg/ml

Product Details

Background:	Galectin-3(GAL3), also known as LGALS3, MAC2 or GALBP, is a member of the lectin family, of which 14 mammalian galectins have been identified. Galectin-3 is encoded by a single gene, LGALS3, located on chromosome 14, locus q21-q22. It is expressed in the nucleus, cytoplasm, mitochondrion, cell surface, and extracellular space. Studies have also shown that the expression of galectin-3 is implicated in a variety of processes associated with heart failure, including myofibroblast proliferation, fibrogenesis, tissue repair, inflammation, and Ventricular remodeling. Galectin-3 is expressed in various tissues and organs, but is significantly absent in normal hepatocytes.
Synonyms:	35 kDa lectin, Carbohydrate-binding protein 35, CBP 35, Gal-3, Galactose-specific lectin 3, Galactoside-binding protein, GALBP, Galectin-3, GALIG, IgE-binding protein, L-31, Laminin-binding protein, Lectin L-29, lectin, galactoside-binding, soluble, 3, LGALS2Mac-2 antigen, MAC2, Macrophage galactose-specific lectin
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	LGALS3
Reactivity:	Human
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: A2-I250

Purity/Specificity:	Natural and recombinant human Galectin-3. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P17931 • NCBI - NP_002297.2 • GeneID - 3958 • KOA0450 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human Galectin-3 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human Galectin-3 standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	156 pg/ml - 10000 pg/ml
Other:	DOE: 2-8° C - 10/14/2023 -20° C - 04/14/2024

Formulation

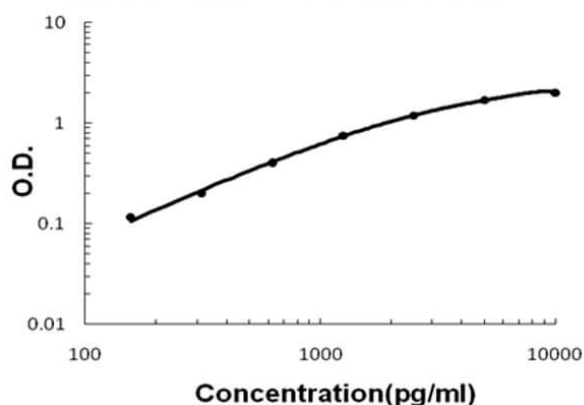
Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiration:	See kit insert for complete instructions.

Images

Human Galectin-3 ELISA Kit



ELISA

Human Galectin-3/LGALS3 AccuSignal ELISA Kit standard curve. Assay Range: 156pg/ml-10000pg/ml.

Sensitivity: <10pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.