

Human Galectin 7 (Gal-7) ELISA Kit | Gal-7 elisa kit

Human Galectin 7, Gal-7 ELISA Kit

CATALOG #
AAA79887

REACTIVITY
Human

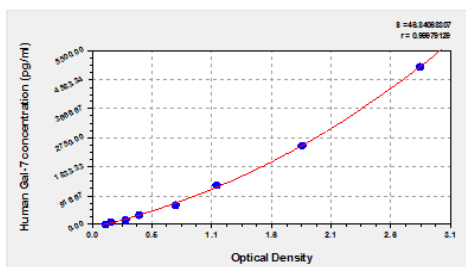
PRODUCT SYNONYMS

Galectin 7 (Gal-7); Human Galectin 7; Gal-7 ELISA Kit; Human Galectin 7 (Gal-7) ELISA Kit; Gal-7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Human Gal-7. No significant cross-reactivity or interference between Human Gal-7 and analogues was observed.
Sequence Length	136
Detection Range	0.312 ng/ml-20 ng/ml
Sensitivity	0.078 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Gal-7 elisa kit

Introduction: Galectins belong to a family of related beta-galactoside-binding lectins, also referred to as S-type or S-Lac lectins. Members of this family have been implicated in a variety of functions, including growth regulation, cell adhesion, migration, neoplastic transformation, and immune responses. Galectin 7 is thought to be involved in cell-cell and/or cell-matrix interactions necessary for normal growth control. Galectin 7 has been implicated in apoptosis and is believed to upregulate MMP9 and as such be involved in the progression of tumorigenesis. The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. Differential and in situ hybridizations indicate that this lectin is specifically expressed in keratinocytes. It is expressed at all stages of epidermal differentiation (i.e., in basal and suprabasal layers). The protein was found mainly in stratified squamous epithelium. It is moderately repressed by retinoic acid. The antigen localized to basal keratinocytes, although it was also found at lower levels in the suprabasal layers, where it concentrated to areas of cell-to-cell contact. The cellular localization and its striking down-regulation in cultured keratinocytes imply a role in cell-cell and/or cell-matrix interactions necessary for normal growth control.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to Gal-7. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for Gal-7 and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain Gal-7, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of Gal-7 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	109948279
NCBI GeneID	653499
NCBI Accession #	NP_001035972.1
NCBI GenBank Nucleotide #	NM_001042507.3
UniProt Accession #	P47929 ; Q6IB87
Molecular Weight	15,075 Da
NCBI Official Full Name	galectin-7
NCBI Official Synonym Full Names	lectin, galactoside-binding, soluble, 7B
NCBI Official Symbol	LGALS7B
NCBI Official Synonym Symbols	PI7; GAL7; Gal-7; HKL-14; LGALS7
NCBI Protein Information	galectin-7; galectin 7B; galectin-7B; p53-induced protein 1; keratinocyte lectin 14; p53-induced gene 1 protein; lectin galactoside-binding soluble 7
UniProt Protein Name	Galectin-7
UniProt Gene Name	LGALS7
UniProt Synonym Gene Names	PIG1 LGALS7B ; Gal-7
UniProt Entry Name	LEG7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.