Anti-human Galectin-1

20140320BB

FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	**102-PA131S**
Size:	100 µg
Lot. No.:	According to product label
Country of origin:	Germany

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>95%) recombinant human Galectin-1 (Ala2-Asp135) derived from E. coli.

Target Background

Synonyms:	Lactose-binding lectin 1, Lectin galactoside-binding soluble 1, S-Lac lectin 1

The Galectins constitute a large family of carbohydrate-binding proteins with specificity for N-acetyl-lactosamine-containing glycoproteins. At least 14 mammalian Galectins, which share structural similarities in their carbohydrate recognition domains (CRD), have been identified to date. Galectins lack a classical signal peptide and can be localized to the cytosolic compartments where they have intracellular functions. However, via one or more as yet unidentified nonclassical secretory pathways, galectins can also be secreted to function extracellularly. Individual members of the Galectin family have different tissue distribution profile and exhibit subtle differences in their carbohydrate binding specificities. Galectin1, also known as L14, BHL and Galaptin, is a monomeric or homodimeric prototype Galectin that is expressed in a variety of cells and tissues including muscle, heart, liver, prostate, lymph nodes, spleen, thymus, placenta, testis, retina, macrophages, B cells, T cells, dendritic cells and tumor cells. It preferentially binds laminin, fibronectin, 90K/Mac2BP, CD45, CD43, CD7, CD2, CD3 and Ganglioside GM1. Galectin1 modulates cell growth and proliferation, either positively or negatively, depending on the cell type and activation status. Galectin1 has immunosuppressive and anti-inflammatory properties and has been shown to suppress acute and chronic inflammation and autoimmunity. Human and mouse galectin1 share about 88% amino acid sequence similarity.

References

1. Rabinovich A et al, Trends in Immunol 23:313, 2002
2. Rabinovich A et al, J Leukocyte Biology 71:741, 2002
3. Hughes RC, Biochimie 83:667, 2001

Database References Antigen

Protein RefSeq:	NP_002296.1
Uniprot ID:	P09382
mRNA RefSeq:	NM_002305.3

Product Specifications

Species reactivity	human
Clone/Ab feature	rabbit IgG
Cross reactivity	n.d.
Host	rabbit
Clonality	polyclonal
Purification	Protein A purified
Immunogen	recombinant human Galectin-1 (RT #100-175)
Formulation	Lyophilized
Buffer	3 mM PBS, pH 7.2

Stability: The lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.

Reconstitution: Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/ml.

AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Western Blot:	Use at 1-5 µg/ml
ELISA:	Use at 1-5 µg/ml

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!

ReliaTech GmbH
Phone: +49 (0)5331 8586 987 • Fax: +49 (0)5331 8586 989 • E-mail: info@reliatech.de • web: www.reliatech.de
Location: Lindener Str. 15, 38300 Wolfenbüttel, Germany

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Handling/Applications

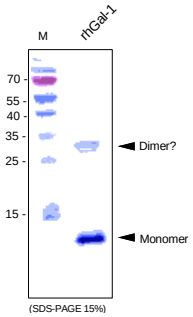

Figure 1: Western analysis of recombinant human Galectin-1 [Cat# 100-175] using an anti-human Galectin-1 polyclonal antibody.

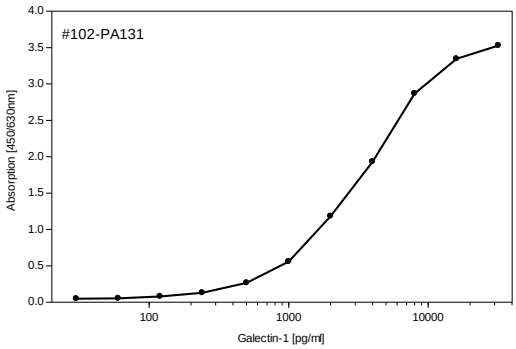

Figure 2: Functional ELISA with anti-human Galectin-1. Recombinant human Galectin-1 was coated with increasing amounts on a 96 well microtiter plate.