

Anti-Galectin 8 Picoband Antibody
Catalog # ABO12345**Specification**

Anti-Galectin 8 Picoband Antibody - Product Information

Application	WB
Primary Accession	O00214
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Galectin-8(LGALS8) detection. Tested with WB in Human;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Galectin 8 Picoband Antibody - Additional Information

Gene ID 3964

Other Names

Galectin-8, Gal-8, Po66 carbohydrate-binding protein, Po66-CBP, Prostate carcinoma tumor antigen 1, PCTA-1, LGALS8

Calculated MW

35808 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization

Cytoplasm .

Tissue Specificity

Ubiquitous. Selective expression by prostate carcinomas versus normal prostate and benign prostatic hypertrophy.

Protein Name

Galectin-8

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human Galectin 8 (286-317aa HSLEYKHRFKELSSIDTLEINGDIHLLEVRWS), different from the related mouse and rat sequences by six amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Anti-Galectin 8 Picoband Antibody - Protein Information

Name LGALS8 ([HGNC:6569](#))

Function

Beta-galactoside-binding lectin that acts as a sensor of membrane damage caused by infection and restricts the proliferation of infecting pathogens by targeting them for autophagy (PubMed:22246324, PubMed:28077878). Detects membrane rupture by binding beta-galactoside ligands located on the luminal side of the endosome membrane; these ligands becoming exposed to the cytoplasm following rupture (PubMed:22246324, PubMed:28077878). Restricts infection by initiating autophagy via interaction with CALCOCO2/NDP52 (PubMed:22246324, PubMed:28077878). Required to restrict infection of bacterial invasion such as S.typhimurium (PubMed:22246324). Also required to restrict infection of Picornaviridae viruses (PubMed:28077878). Has a marked preference for 3'-O-sialylated and 3'-O-sulfated glycans (PubMed:21288902).

Cellular Location

Cytoplasmic vesicle. Cytoplasm, cytosol

Tissue Location

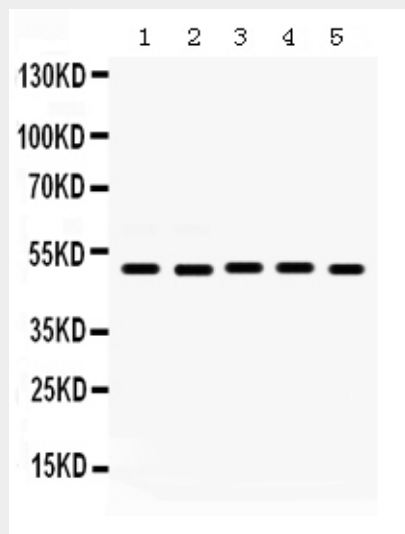
Ubiquitous. Selective expression by prostate carcinomas versus normal prostate and benign prostatic hypertrophy

Anti-Galectin 8 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Galectin 8 Picoband Antibody - Images



Anti- Galectin 8 Picoband antibody, ABO12345, Western blottingAll lanes: Anti Galectin 8 (ABO12345) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Rat Kidney Tissue Lysate at 50ugLane 3: Human Placenta Tissue Lysate at 50ugLane 4: HELA Whole Cell Lysate at 40ugLane 5: A431 Whole Cell Lysate at 40ugPredicted bind size: 36KDObserved bind size: 50KD

Anti-Galectin 8 Picoband Antibody - Background

Galectin-8 is a protein of the galectin family that in humans is encoded by the LGALS8 gene. This gene encodes a member of the galectin family. Galectins are beta-galactoside-binding animal lectins with conserved carbohydrate recognition domains. The galectins have been implicated in many essential functions including development, differentiation, cell-cell adhesion, cell-matrix interaction, growth regulation, apoptosis, and RNA splicing. This gene is widely expressed in tumoral tissues and seems to be involved in integrin-like cell interactions. Alternatively spliced transcript variants encoding different isoforms have been identified.