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LGALS8 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP17988b

Specification

LGALS8 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession O00214

LGALS8 Antibody (C-term) Blocking Peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

LGALS8 Antibody (C-term) Blocking Peptide - 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 lumenal 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

LGALS8 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

LGALS8 Antibody (C-term) Blocking Peptide - Images

LGALS8 Antibody (C-term) Blocking Peptide - Background

This gene encodes a member of the galectin family.Galectins are beta-galactoside-binding animal lectins withconserved carbohydrate recognition domains. The galectins have beenimplicated in many essential functions including development,differentiation, cell-cell adhesion, cell-matrix interaction,growth regulation, apoptosis, and RNA splicing. This gene is widelyexpressed in tumoral tissues and seems to be involved inintegrin-like cell interactions. Alternatively spliced transcriptvariants encoding different isoforms have been identified.

LGALS8 Antibody (C-term) Blocking Peptide - References

Cludts, S., et al. Anticancer Res. 29(12):4933-4940(2009)Cueni, L.N., et al. Exp. Cell Res. 315(10):1715-1723(2009)Yoshida, H., et al. Acta Crystallogr. Sect. F Struct. Biol. Cryst. Commun. 65 (PT 5), 512-514 (2009) :Massardo, L., et al. Lupus 18(6):539-546(2009)Savin, S., et al. Med. Oncol. 26(3):314-318(2009)