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Recombinant Anti-Galectin 8 Rabbit mAb

Catalog # AP95245

Product Information

Application	WB, IHC, FC, IP, IF/IC
Primary Accession	O00214
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	35808

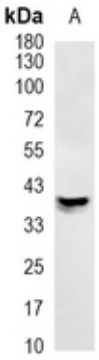
Additional Information

Gene ID	3964
Other Names	Galectin-8; Gal-8; Po66 carbohydrate-binding protein; Po66-CBP; Prostate carcinoma tumor antigen 1; PCTA-1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human Galectin 8 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IP~~N/A IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

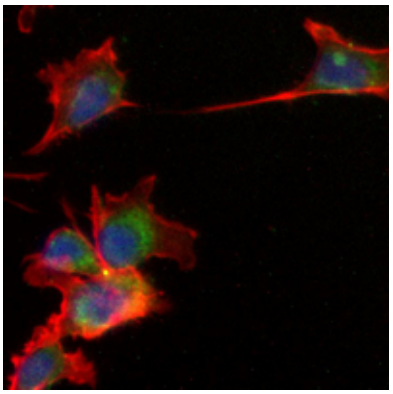
Protein Information

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

Images



Western blot analysis of Galectin 8 expression in LNCaP (A) whole cell lysates. (Predicted band size: 36 kD; Observed band size: 40 kD)



Immunofluorescent analysis of Galectin 8 staining in LNCaP cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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