ARG11061
anti-Galectin 3 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Galectin 3
Tested Reactivity	Hu, Ms, Rat, Pig
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Galectin 3
Species	Human
Immunogen	Full length recombinant Galectin 3 expressed in and purified from E. coli
Conjugation	Un-conjugated
Alternate Names	Laminin-binding protein; Gal-3; L-31; GALBP; Galactoside-binding protein; MAC2; GAL3; GALIG; Mac-2 antigen; CBP 35; Galectin-3; CBP35; Galactose-specific lectin 3; IgE-binding protein; L31; 35 kDa lectin; Carbohydrate-binding protein 35; Lectin L-29

Application Instructions

Application table

Application	Dilution
ICC/IF	1:2000
WB	1:5000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Observed Size	30 kDa

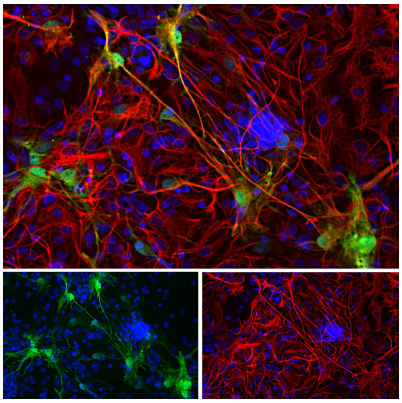
Properties

Form	Liquid
Purification	Unpurified
Buffer	Serum and 5mM Sodium azide.
Preservative	5mM Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	LGALS3
Gene Full Name	lectin, galactoside-binding, soluble, 3
Background	This gene encodes a member of the galectin family of carbohydrate binding proteins. Members of this protein family have an affinity for beta-galactosides. The encoded protein is characterized by an N-terminal proline-rich tandem repeat domain and a single C-terminal carbohydrate recognition domain. This protein can self-associate through the N-terminal domain allowing it to bind to multivalent saccharide ligands. This protein localizes to the extracellular matrix, the cytoplasm and the nucleus. This protein plays a role in numerous cellular functions including apoptosis, innate immunity, cell adhesion and T-cell regulation. The protein exhibits antimicrobial activity against bacteria and fungi. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Oct 2014]
Function	Galactose-specific lectin which binds IgE. May mediate with the alpha-3, beta-1 integrin the stimulation by CSPG4 of endothelial cells migration. Together with DMBT1, required for terminal differentiation of columnar epithelial cells during early embryogenesis (By similarity). In the nucleus: acts as a pre-mRNA splicing factor. Involved in acute inflammatory responses including neutrophil activation and adhesion, chemoattraction of monocytes macrophages, opsonization of apoptotic neutrophils, and activation of mast cells. [UniProt]
Calculated Mw	26 kDa

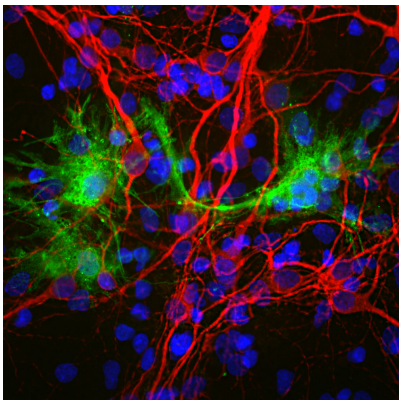
Images



ARG11061 anti-Galectin 3 antibody ICC/IF image

Immunofluorescence: Cortical neuron-glial cell culture from E20 Rat stained with ARG11061 anti-Galectin 3 antibody (green) at 1:2000 dilution, and costained with mouse mAb to GFAP (red) at 1:2000 dilution. The blue is Hoechst staining of nuclear DNA.

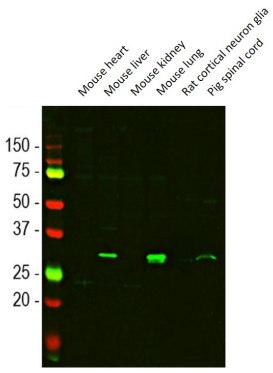
Certain glial cells express only galectin-3 protein, and appear green, while the majority of glial cells and astrocytes produces GFAP protein and so appear red, a few cells that express both protein appear orange-yellow.



ARG11061 anti-Galectin 3 antibody ICC/IF image

Immunofluorescence: Cortical neuron-glial cells from E20 Rat stained with ARG11061 anti-Galectin 3 antibody (green) at 1:2000 dilution and costained with ARG10719 anti-MAP2 antibody [4H5] (red) at 1:2000 dilution. Hoechst (blue) for nuclear staining.

The Galectin 3 antibody produces strong staining of certain glial cells, while MAP2 antibody labels dendrites and perikarya of mature neurons.



ARG11061 anti-Galectin 3 antibody WB image

Western blot: Mouse heart, Mouse liver, Mouse kidney, Mouse lung, Rat cortical neuron-glial primary cell culture and Pig spinal cord lysates stained with ARG11061 anti-Galectin 3 antibody at 1:5000 dilution.