

**ARG10713**  
**anti-Galectin 3 antibody [5C21]**Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [5C21] recognizes Galectin 3
Tested Reactivity	Hu, Rat
Predict Reactivity	Ms
Tested Application	ICC/IF, IHC-Fr, WB
Host	Mouse
Clonality	Monoclonal
Clone	5C21
Isotype	IgG1
Target Name	Galectin 3
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
	IHC-Fr	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.	

### Properties

Form	Liquid
Purification	Affinity purification.
Buffer	PBS and 50% Glycerol.
Stabilizer	50% Glycerol
Concentration	1 mg/ml
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. 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.

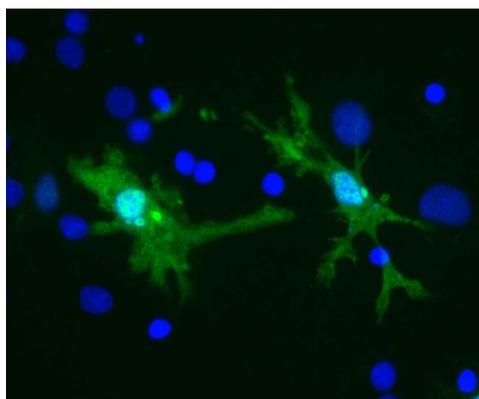
## Bioinformation

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Database links	<a href="#">GeneID: 3958 Human</a> <a href="#">GeneID: 83781 Rat</a> <a href="#">Swiss-port # P08699 Rat</a> <a href="#">Swiss-port # P17931 Human</a>
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

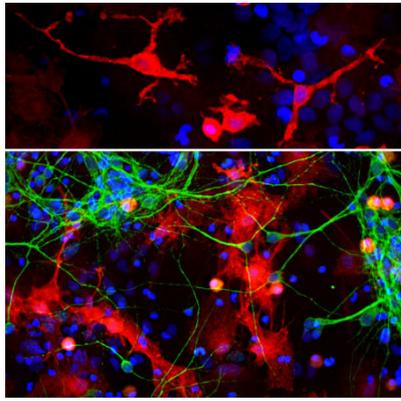
## Images

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ARG10713 anti-Galectin 3 antibody [5C21] ICC/IF image

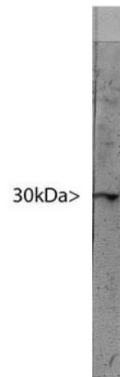
Immunocytochemistry: Rat brain neural cultures stained with ARG10713 anti-Galectin 3 antibody [5C21] (green) and DNA (blue). Staining can be seen in several types of glia and lymphocytic cells, including these cells which have the morphology of microglia. Surrounding cells reveal no Galectin-3 staining.



#### ARG10713 anti-Galectin 3 antibody [5C21] ICC/IF image

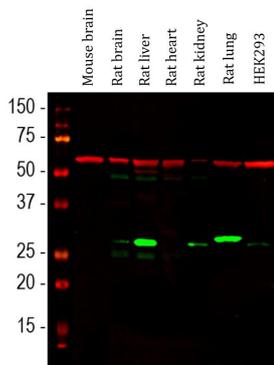
Immunofluorescence: Cortical neuron-glia cells from E20 Rat stained with ARG10713 anti-Galectin 3 antibody [5C21] (red) at 1:1000 dilution and costained with [ARG52328](#) anti-MAP2 antibody (green) at 1:10000 dilution. Hoechst (blue) for nuclear staining.

Clone 5C21 produces strong staining of microglia (top panel), other glial cells (bottom panel) and lymphocytic cells (small round cells), while the MAP2 antibody labels dendrites and perikarya of mature neurons.



#### ARG10713 anti-Galectin 3 antibody [5C21] WB image

Western blot: crude HeLa cell extract stained with ARG10713 anti-Galectin 3 antibody [5C21].



#### ARG10713 anti-Galectin 3 antibody [5C21] WB image

Western blot: Mouse brain, Rat brain, Rat liver, Rat heart, Rat kidney, Rat lung and HEK293 cell lysates stained with ARG10713 anti-Galectin 3 antibody [5C21] (green) at 1:2000 dilution. The same blot was simultaneously stained with [ARG10757](#) anti-Hsp 60 antibody (red) at 1:20000 dilution.