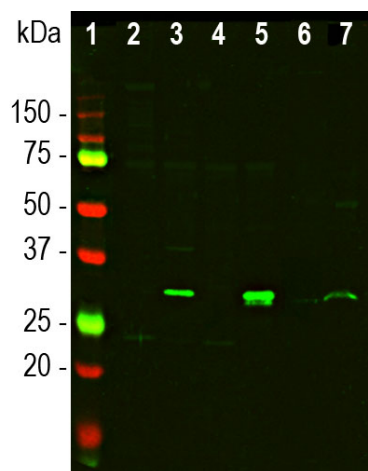
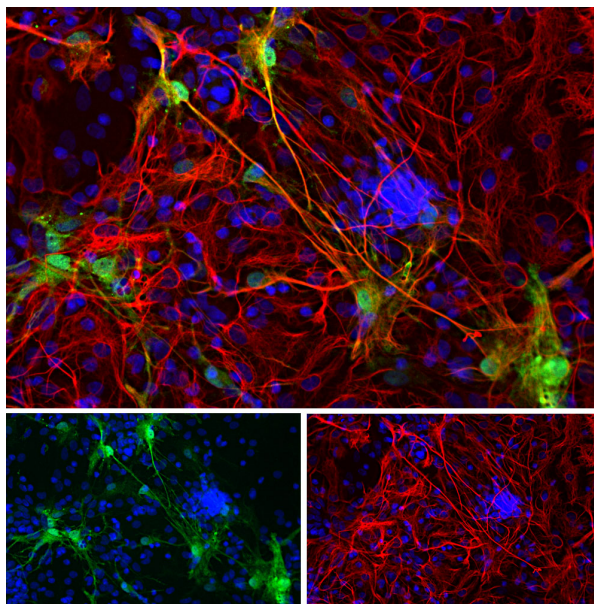


Product name:	Galectin 3 Rabbit Polyclonal Antibody
Cat number:	AB-82806
Conjugate:	Unconjugated
Size:	100 ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	Full length recombinant galectin 3 expressed in and purified from E. coli..
Reactivity:	Human, Mouse, Rat
Applications:	Western Blot: 1/500 - 1/5000 Immunohistochemistry: 1/100 - 1/1000 Immunofluorescence: 1/200 - 1/1000
Molecular Weight:	30kD
Purification:	Serum
Form:	Liquid
Buffer:	Supplied as an aliquot of serum plus 5mM NaN ₃
Storage:	Store at 4°C for short term, for longer term store at -20°C + avoid freeze/thaw cycles
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.



Western blot analysis of different tissue and cell lysates using rabbit pAb to galectin 3, dilution 1:5,000 in green: [1] protein standard and mouse tissue lysates: [2] heart, [3] liver, [4] kidney, [5] lung, [6] rat cortical neuron-glia primary cell culture lysate and [7] pig spinal cord lysate. The band at about 30kDa corresponds to the galectin 3 protein.



Immunofluorescent analysis of cortical neuron-glia cell culture from E20 rat stained with rabbit pAb to galectin 3, dilution 1:2,000 in green, and costained with mouse mAb to GFAP, dilution 1:2,000 in red. 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.