

Mouse Anti-Galectin 3 antibody

SLM-33049M

Product Name Galectin 3

Chinese Name 半乳糖凝集素 3 单克隆抗体

Alias Galectin-3; 35 kDa lectin; Carbohydrate binding protein 35; CBP 35; CBP35; GAL 3; GAL3; GAL-3; Galactose specific lectin 3; Galactose-specific lectin 3; Galactoside binding protein; Galactoside-binding protein; GALBP; Galectin3 internal gene,included; Galectin3; GALIG; GBP; IgE binding protein; IgE-binding protein; L 31; L 34; L-34 galactoside-binding lectin; L31; Laminin binding protein; Laminin-binding protein; Lectin galactose binding soluble 3; Lectin galactoside binding soluble 3; Lectin L 29; Lectin L-29; Lectin, galactose binding, soluble 3; LGALS 3; LGALS2; LGALS3; LGALS3 protein; MAC 2 antigen; Mac-2; MAC2; Macrophage galactose-specific lectin; MGC105387; LEG3_HUMAN.

Research Area Tumour immunology Apoptosis

Immunogen Species Mouse

Clonality Monoclonal

Clone NO. 8A2

React Species Human

Applications WB=1:500-2000,ICC/IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 29kDa

Cellular localization The nucleus cytoplasmic Secretory protein

Form Liquid

Concentration 1mg/ml

immunogen Recombinant human Galectin-3 full length protein

Lsotype IgG

Purification affinity purified by Protein G

Buffer 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Solution

Storage

Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

[PubMed](#)

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. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2010].

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. 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.

**Product
Detail**

Subunit:

Probably forms homo- or heterodimers. Interacts with DMBT1 (By similarity). Forms a complex with the ITGA3, ITGB1 and CSPG4. Interacts with LGALS3BP, LYPD3, CYHR1 and UACA.

Subcellular Location:

Cytoplasm. Nucleus. Secreted. Note=Secreted by a non-classical secretory pathway and associates with the cell surface.

Tissue Specificity:

A major expression is found in the colonic epithelium. It is also abundant in the activated macrophages.

Similarity:

Contains 1 galectin domain.

SWISS:

P17931

Gene ID:

3958

Database links:

[Entrez Gene: 3958](#) Human

[Entrez Gene: 16854](#) Mouse

[Entrez Gene: 83781](#) Rat

[Omim: 153619](#) Human

[SwissProt: P17931](#) Human

[SwissProt: P16110](#) Mouse

[SwissProt: P08699](#) Rat

[Unigene: 531081](#) Human

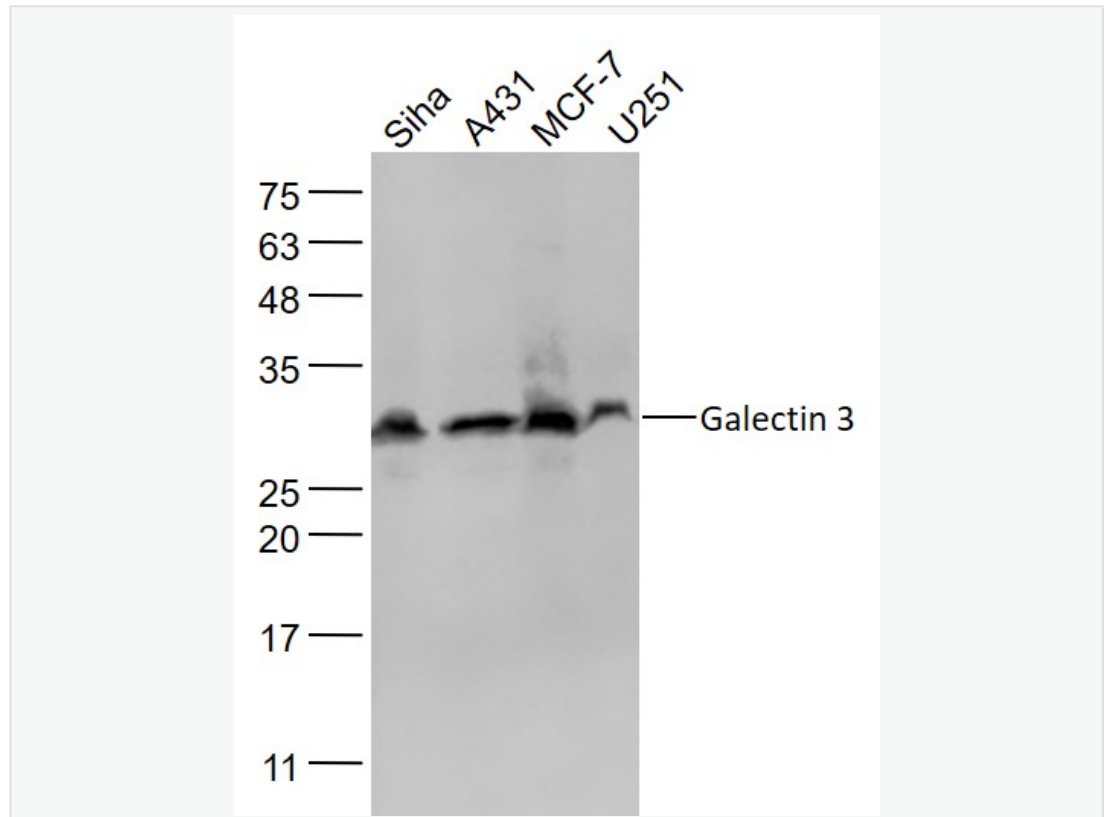
[Unigene: 248615](#) Mouse

[Unigene: 764](#) Rat

Galectin-3 是 Galectin（半乳凝素）家族的一员，能识别 glycoprotein 和糖脂的特异性低聚糖结构，参与多种生理和病理过程，包括细胞生长和凋亡、细胞黏附、新生血管形成和 Tumour 浸润与转移等。Galectin-3 在 Tumour 的发生、发展及转移中起重要作用。

Galectin-3 在某些 Tumour 组织中高表达，其在不同类型 Tumour，如结直肠癌、胃癌、胰腺癌、甲状腺癌及肺癌等患者中的高表达水平，与低生存、Tumour 复发、预后差及对化疗药物敏感性降低相关对于某些 Tumour，Galectin-3 有可能成为一个有价值的诊断标志和治疗靶点。

**Product
Picture**



Sample:

Siha(Human) Cell Lysate at 30 ug

A431 (Human) Cell Lysate at 30 ug

MCF-7(Human) Cell Lysate at 30 ug

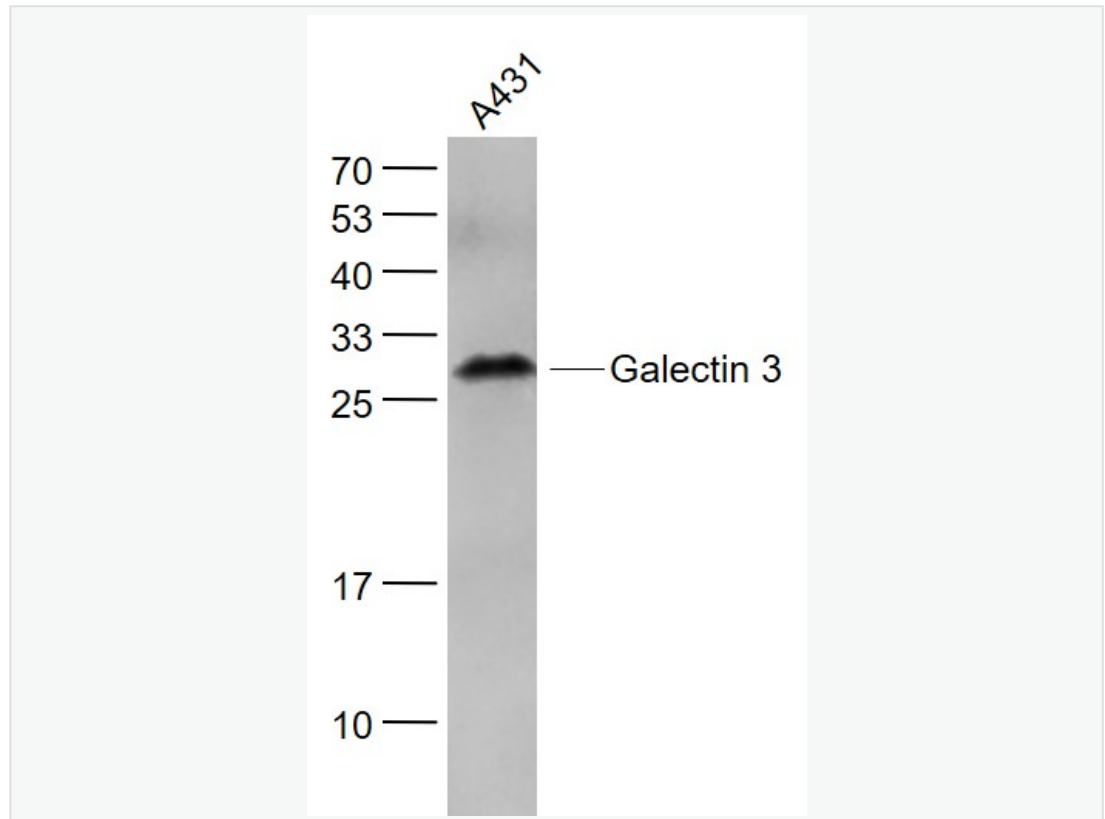
U251(Mouse) Cell Lysate at 30 ug

Primary: Anti- Galectin 3 (SLM-33049M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 29 kD

Observed band size: 29 kD



Sample:

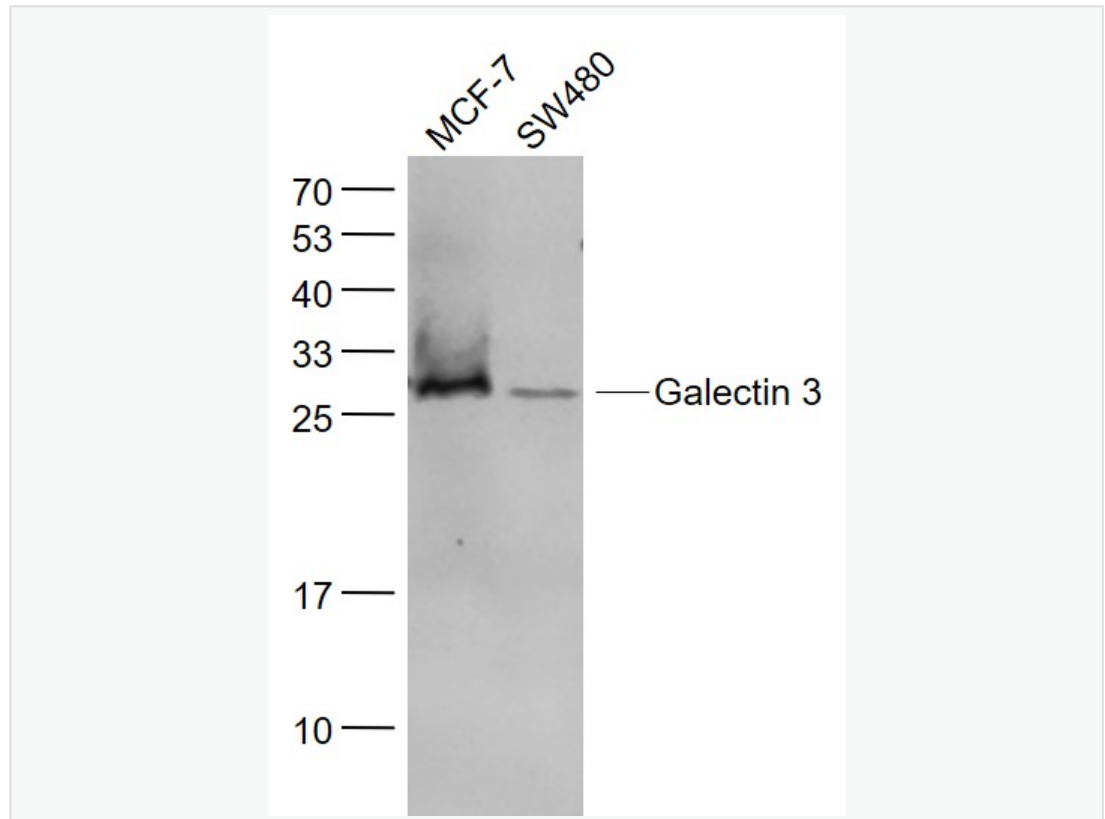
A431(Human) Cell Lysate at 30 ug

Primary: Anti- Galectin 3 (SLM-33049M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 29 kD

Observed band size: 29 kD



Sample:

MCF-7(Human) Cell Lysate at 30 ug

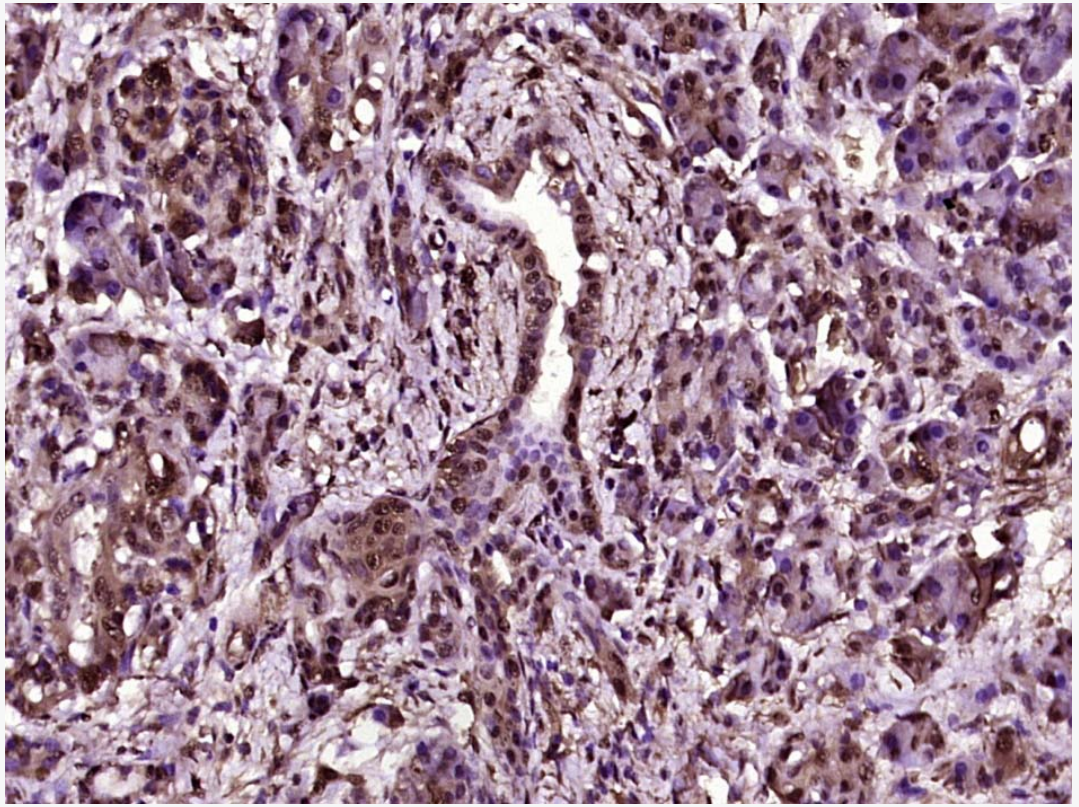
SW480(Human) Cell Lysate at 30 ug

Primary: Anti- Galectin 3 (SLM-33049M) at 1/1000 dilution

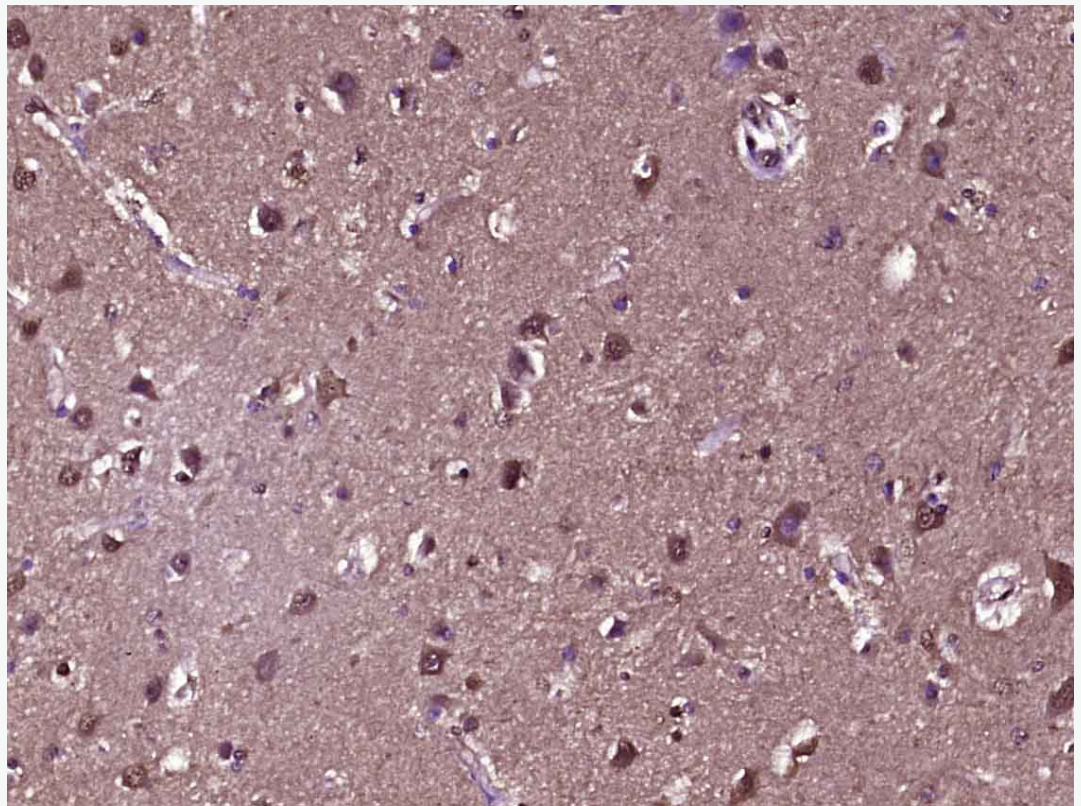
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 29 kD

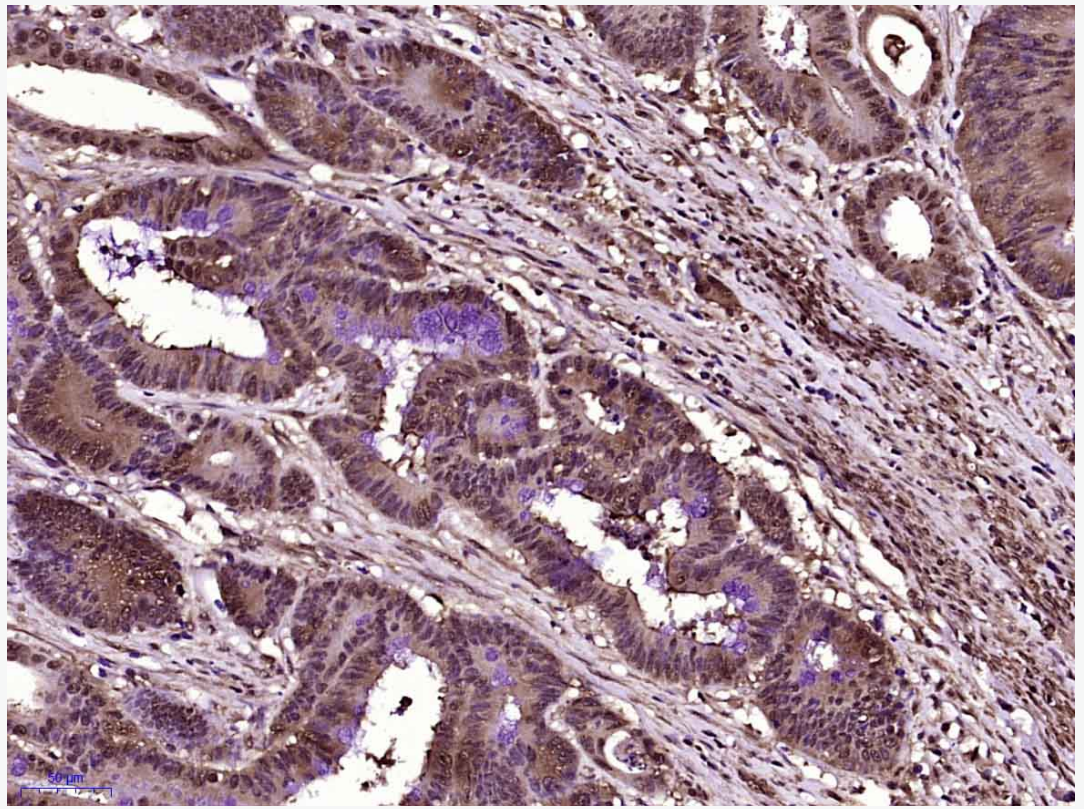
Observed band size: 29 kD



Paraformaldehyde-fixed, paraffin embedded (Human pancreatic cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Galectin 3) Monoclonal Antibody, Unconjugated (ascites of SLM-33049M 8A2) at 1:2000 overnight at 4°C, followed by a conjugated secondary (sp-0024) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Galectin 3) Monoclonal Antibody, Unconjugated (ascites of SLM-33049M 8A2 Galectin 3) at 1:2000 overnight at 4°C, followed by a conjugated secondary (sp-0024) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human colon cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Galectin 3) Monoclonal Antibody, Unconjugated (ascites of SLM-33049M 8A2) at 1:2000 overnight at 4°C, followed by a conjugated secondary (sp-0024) for 20 minutes and DAB staining.