abcam

ab206435

Anti-Galectin 7 antibody [EPR19903]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR19903
Purification technique	Affinity purification Protein A
Concentration	0.626 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/40
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/500
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-Fr

Tested

Species	Rat
Dilution info	1/500
Notes	-

Expected

Species	Human, Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/600
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/4000
Notes	(ab93684)

Species	Rat
Dilution info	1/4000

Notes	(ab93684)

Species	Human
Dilution info	1/4000
Notes	(ab93684)

Target data

See full target information LGALS7

Function	Could be involved in cell-cell and/or cell-matrix interactions necessary for normal growth control. Pro-apoptotic protein that functions intracellularly upstream of JNK activation and cytochrome c release.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Galectin 7 also known as Gal-7 is a member of the galectin family of beta-galactoside-binding proteins. It has a molecular mass of approximately 15 kDa. Structurally Galectin 7 has a single carbohydrate recognition domain (CRD) which allows it to bind glycoconjugates. Galectin 7 expresses in various tissues with high expression levels in the epidermis and in stratified squamous epithelia.
Biological function summary	Galectin 7 plays a role in cell-cell adhesion apoptosis regulation and immune response modulation. It plays a role in the cell's apoptosis machinery and interacts with the cytochrome c release pathway. This protein does not typically form a part of large complexes functioning individually in most biological processes. It can influence keratinocyte migration indicating involvement in wound healing processes.
Pathways	Galectin 7 participates in the apoptosis and cell adhesion pathways. It works alongside proteins such as Bcl-2 and Bax to regulate programmed cell death by promoting apoptosis. Additionally it interacts with matrix metalloproteinases influencing the remodelling of extracellular matrix a critical component of tissue repair and immune response.
Associated diseases and disorders	Galectin 7 is associated with cancer and psoriasis. In cancer it can act as a pro-apoptotic factor and modulates tumor progression often in concert with p53 a well-known tumor suppressor protein. In psoriasis aberrant expression of Galectin 7 correlates with impaired epidermal function and inflammation suggesting it may alter the disease course by influencing local immune responses and keratinocyte behavior.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

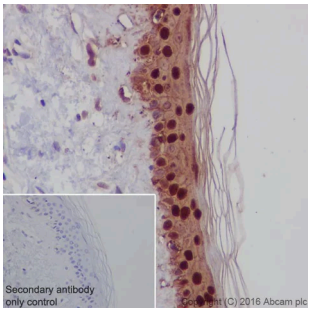
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

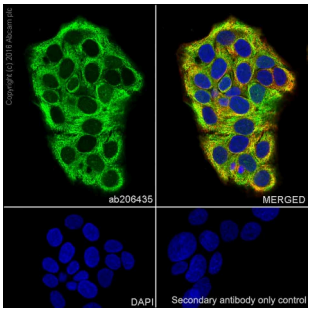
12 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Galectin 7 antibody [EPR19903] (ab206435)

Immunohistochemical analysis of paraffin-embedded human skin tissue labeling Galectin 7 with ab206435 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Positive staining on epithelium of human skin is observed (PMID: 23658821). Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

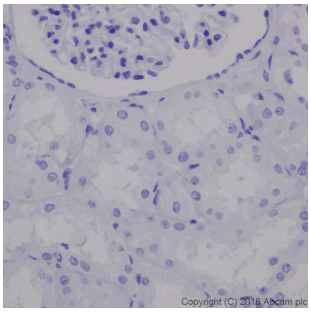


Immunocytochemistry/ Immunofluorescence - Anti-Galectin 7 antibody [EPR19903] (ab206435)

Galectin 7 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Galectin 7 antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HaCaT (Human keratinocyte cell line) cells labeling Galectin 7 with ab206435 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on HACAT cell line. The nuclear counterstain is DAPI (blue).
Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.



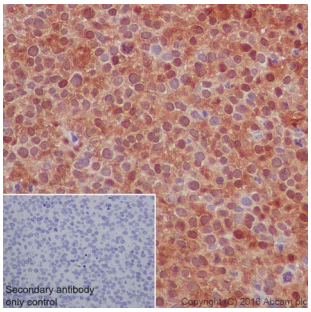
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Galectin 7 antibody [EPR19903] (ab206435)

Galectin 7 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Galectin 7 antibody

Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling Galectin 7 with ab206435 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.
Negative control: No staining in human kidney (PMID: 9697310).

Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

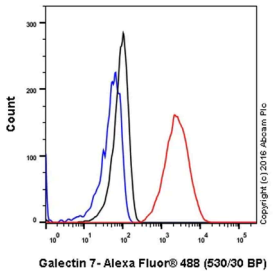


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Galectin 7 antibody [EPR19903] (ab206435)

Galectin 7 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Galectin 7 antibody

Immunohistochemical analysis of paraffin-embedded human squamous carcinoma of the cervix tissue labeling Galectin 7 with ab206435 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Positive staining on tumor cells of squamous carcinoma of the cervix is observed. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

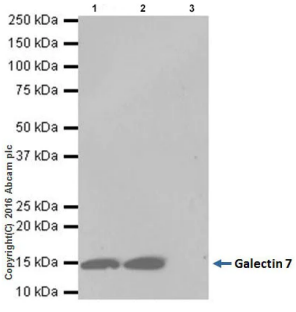
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-Galectin 7 antibody [EPR19903] (ab206435)

Galectin 7 Flow Cytometry (Intracellular) staining using rabbit Anti-Galectin 7 antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed HaCaT (Human keratinocyte cell line) cells labeling Galectin 7with ab206435 at 1/600 dilution (red) compared with a rabbit monoclonal IgG isotype control (ab172730; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat Anti-Rabbit IgG (Alexa Fluorr® 488) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-Galectin 7 antibody [EPR19903] (ab206435)

Galectin 7 was immunoprecipitated from 0.35 mg of human skin lysate with ab206435 at 1/40 dilution.
Western blot was performed from the immunoprecipitate using ab206435 at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10000 dilution.

Lane 1: Human skin lysate 10µg (Input).

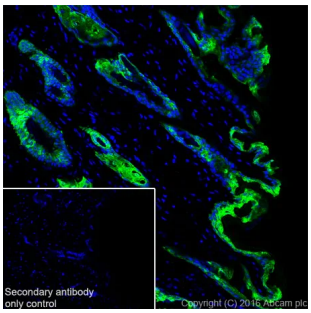
Lane 2: ab206435 IP in human skin lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab206435 in human skin lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 30 seconds.
All lanes:
Immunoprecipitation - Anti-Galectin 7 antibody [EPR19903] (ab206435)

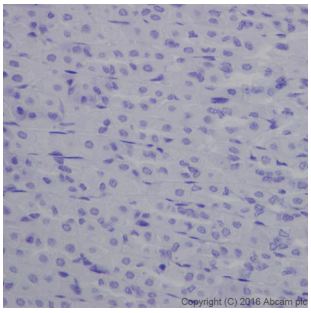
Predicted band size: 15 kDa



Immunohistochemistry (Frozen sections) - Anti-Galectin 7 antibody [EPR19903] (ab206435)

Galectin 7 Immunohistochemistry (Frozen sections) staining using rabbit Anti-Galectin 7 antibody

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized rat skin tissue labeling Galectin 7 with ab206435 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Positive staining on epithelium of rat skin is observed. Nuclear counterstain: DAPI (Blue).
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.



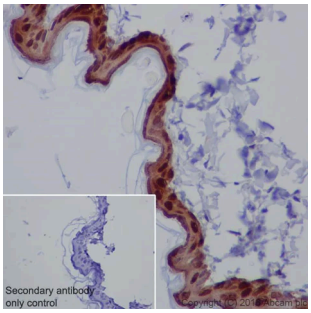
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Galectin 7 antibody [EPR19903] (ab206435)

Galectin 7 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Galectin 7 antibody

Immunohistochemical analysis of paraffin-embedded mouse stomach tissue labeling Galectin 7 with ab206435 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.
Negative control: No staining on mouse stomach (PMID: 9697310).

Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

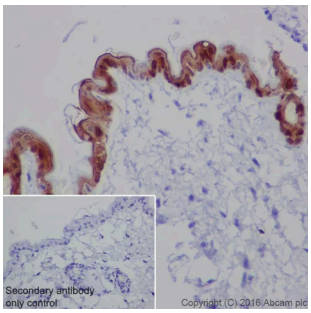


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Galectin 7 antibody [EPR19903] (ab206435)

Galectin 7 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Galectin 7 antibody

Immunohistochemical analysis of paraffin-embedded rat skin tissue labeling Galectin 7 with ab206435 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Positive staining on epithelium of rat skin is observed. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

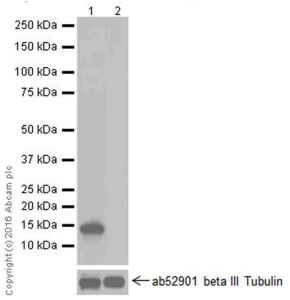


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Galectin 7 antibody [EPR19903] (ab206435)

Galectin 7 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Galectin 7 antibody

Immunohistochemical analysis of paraffin-embedded mouse skin tissue labeling Galectin 7 with ab206435 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Positive staining on epithelium of mouse skin is observed. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-Galectin 7 antibody [EPR19903] (ab206435)

Blocking/Dilution buffer: 5% NFDM/TBST.
Galectin 7 is specifically expressed in stratified squamous epithelium, but not in non-epithelial organs such as skeletal muscle. PMID: 9697310; PMID: 7729568.

All lanes:
Western blot - Anti-Galectin 7 antibody [EPR19903] (ab206435) at 1/2000 dilution

Lane 1:
Human skin lysate at 10 µg

Lane 2:
Human skeletal muscle lysate at 10 µg

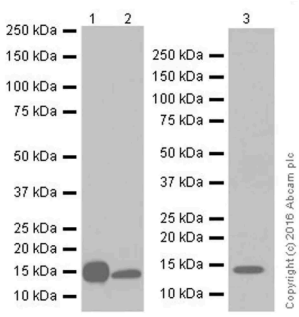
Secondary

All lanes:
Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/100000 dilution

Predicted band size: 15 kDa

Observed band size: 14 kDa

Exposure time: 3s



Western blot - Anti-Galectin 7 antibody [EPR19903] (ab206435)

Galectin 7 Western blot staining using rabbit Anti-Galectin 7 antibody

Blocking/Dilution buffer: 5% NFDM/TBST.
Exposure time: Lane 1/2: 30 seconds; Lane 3: 15 seconds.

Galectin 7 is specifically expressed in stratified squamous epithelium, but not in non-epithelial organs. PMID: 9697310; PMID: 7729568.

Lanes 1 - 2:
Western blot - Anti-Galectin 7 antibody [EPR19903] (ab206435) at 1/2000 dilution

Lane 3:
Western blot - Anti-Galectin 7 antibody [EPR19903] (ab206435) at 1/1000 dilution

Lane 1:
Rat skin lysate at 10 µg

Lane 2:
Mouse skin lysate at 10 µg

Lane 3:
HaCaT (Human keratinocyte cell line) whole cell lysate at 10 µg

Secondary

Lanes 1 - 2:
Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

Lane 3:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 15 kDa

Observed band size: 14 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.