

For Research Use Only

LAG-3/CD223 Polyclonal antibody

Catalog Number: 16616-1-AP

12 Publications



Basic Information

Catalog Number:

16616-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9909

GenBank Accession Number:

BC052589

GeneID (NCBI):

3902

UNIPROT ID:

P18627

Full Name:

Lymphocyte-activation gene 3

Calculated MW:

525 aa, 57 kDa

Observed MW:

54 kDa, 60-65 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:1000-1:4000

IF-P 1:50-1:500

Applications

Tested Applications:

IHC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IP: mouse liver tissue,

IHC: human tonsillitis tissue,

IF-P: human tonsillitis tissue,

Background Information

LAG-3, also known as CD223, is an immune checkpoint molecule that regulates both T-cell activation and homeostasis. LAG-3 is expressed on activated T cells, NK cells, regulatory T cells, and plasmacytoid dendritic cells. It is a CD4-related molecule that binds MHC class II. LAG-3 plays an important role in modulating T cell expansion and function, and blockade of LAG-3 with monoclonal antibodies can augment T cell function. (PMID: 15634887; 21086108; 28783703)

Notable Publications

Author	Pubmed ID	Journal	Application
Yigang Zhang	34164523	Ann Transl Med	IHC
Pei Yang	33576871	Cancer Immunol Immunother	WB
Jiajia Ma	36561512	Front Oncol	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

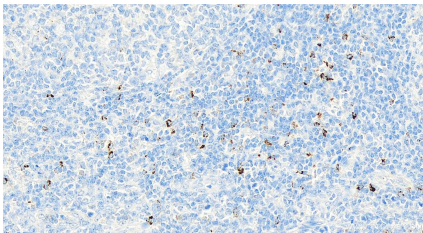
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

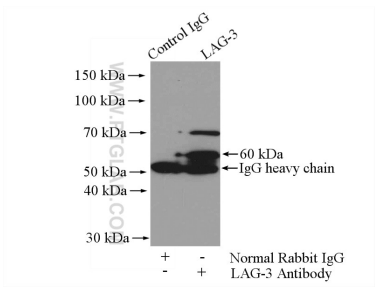
Selected Validation Data



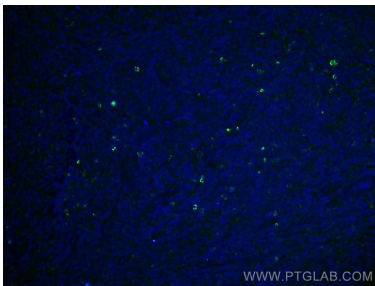
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 16616-1-AP (LAG-3/CD223 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



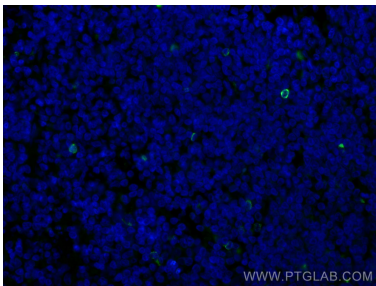
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 16616-1-AP (LAG-3/CD223 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-LAG-3 (IP:16616-1-AP, 4ug; Detection:16616-1-AP 1:500) with mouse liver tissue lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using LAG-3 antibody (16616-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using LAG-3 antibody (16616-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).