

For Research Use Only

ISG15 Polyclonal antibody

Catalog Number: 15981-1-AP

Featured Product

31 Publications



Basic Information

Catalog Number: 15981-1-AP	GenBank Accession Number: BC009507	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 450 µg/ml by Nanodrop and 280 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 9636	Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: ISG15 ubiquitin-like modifier	IHC 1:20-1:200 IF 1:50-1:500
Isotype: IgG	Calculated MW: 165 aa, 18 kDa	
Immunogen Catalog Number: AG8782	Observed MW: 15-17 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: IF, IHC, IP, WB	WB: HeLa cells, human brain tissue, MCF-7 cells, PC-3 cells
Species Specificity: human, mouse	IP: HeLa cells,
Cited Species: goat, human, mouse	IHC: human lung cancer tissue, human pancreas cancer tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IF: mouse brain tissue, HeLa cells

Background Information

ISG15 is a ubiquitin-like protein that becomes conjugated to many cellular proteins upon activation by interferon-alpha (IFNA) and -beta (IFNB). ISG15 forms covalent conjugates with its target proteins in a process called ISGylation, which in mammals is known to play a role in antiviral immunity. ISG15 proteins possess two ubiquitin-like (UBL) domains and a highly conserved C-terminal LRGG sequence, the latter being known as the ubiquitin conjugation motif. Intracellular ISG15 are conjugated, via the LRGG motif, to target proteins through a process called ISGylation, which resembles largely ubiquitination, the process of formation of ubiquitin conjugates. Unconjugated extracellular ISG15, which are released from several types of human and murine cells, are known to possess cytokine-like activity.

Notable Publications

Author	Pubmed ID	Journal	Application
Yong Ge	34467630	EMBO Rep	WB
Feifeng Song	34696780	Cancer Cell Int	WB,IHC
Yuanfeng Wei	34765295	Am J Cancer Res	IHC

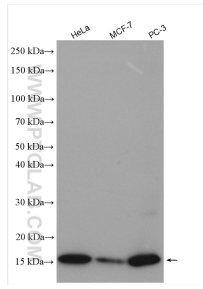
Storage

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

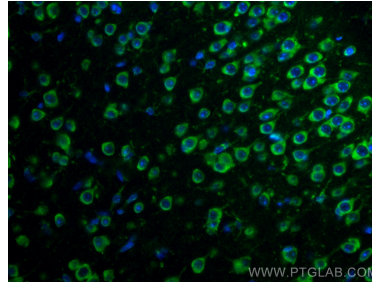
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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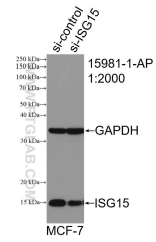
Selected Validation Data



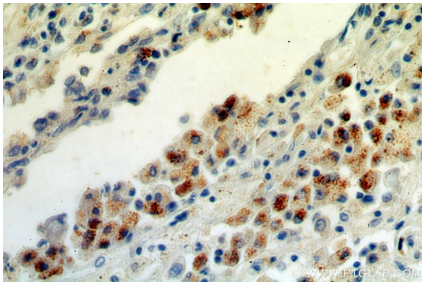
Various lysates were subjected to SDS PAGE followed by western blot with 15981-1-AP (ISG15 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



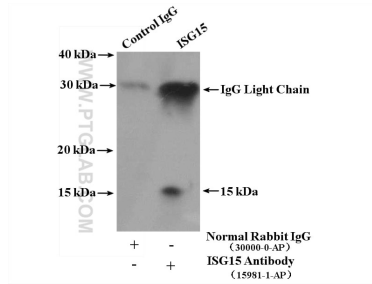
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using ISG15 antibody (15981-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



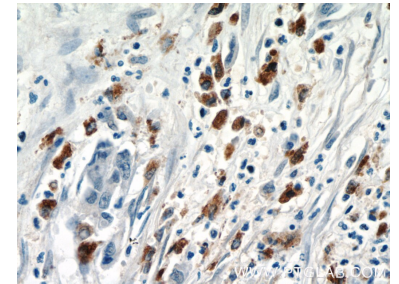
WB result of ISG15 antibody (15981-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ISG15 transfected MCF-7 cells.



Immunohistochemical analysis of paraffin-embedded human lung cancer using 15981-1-AP (ISG15 antibody) at dilution of 1:50 (under 40x lens).



IP Result of anti-ISG15 (IP:15981-1-AP, 4ug; Detection:15981-1-AP 1:500) with HeLa cells lysate 3200ug.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 15981-1-AP (ISG15 Antibody) at dilution of 1:50 (under 40x lens).