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Datasheet for ABIN103335 anti-ISG15 antibody

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Overview

Quantity:	500 µg	
Target:	ISG15	
Reactivity:	Human	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This ISG15 antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)	
Product Details		
Purpose:	ISG15 Antibody	
Purpose: Immunogen:	ISG15 Antibody Immunogen: This purified antibody was prepared from rabbit serum after repeated	
·		
·	Immunogen: This purified antibody was prepared from rabbit serum after repeated	
·	Immunogen: This purified antibody was prepared from rabbit serum after repeated immunizations with recombinant human ISG15 protein.	
Immunogen:	Immunogen: This purified antibody was prepared from rabbit serum after repeated immunizations with recombinant human ISG15 protein. Immunogen Type: Recombinant Protein	
Immunogen: Isotype:	Immunogen: This purified antibody was prepared from rabbit serum after repeated immunizations with recombinant human ISG15 protein. Immunogen Type: Recombinant Protein IgG	
Immunogen: Isotype: Cross-Reactivity (Details):	Immunogen: This purified antibody was prepared from rabbit serum after repeated immunizations with recombinant human ISG15 protein. Immunogen Type: Recombinant Protein IgG Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum.	
Immunogen: Isotype: Cross-Reactivity (Details):	Immunogen: This purified antibody was prepared from rabbit serum after repeated immunizations with recombinant human ISG15 protein. Immunogen Type: Recombinant Protein IgG Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. Synonyms: rabbit anti-ISG15 Antibody, G1P2 antibody, IFI 15 antibody, IFI15 antibody, Interferon	

followed by extensive dialysis against the buffer stated above.

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Target:	ISG15
Alternative Name:	ISG15 (ISG15 Products)
Background:	Background: Ubiquitin-like proteins fall into two classes: the first class, ubiquitin-like modifiers
	(UBLs) function as modifiers in a manner analogous to that of ubiquitin. Examples of UBLs are
	SUMO, Rub1 (also called Nedd8), Apg8 and Apg12. Proteins of the second class include parkin
	RAD23 and DSK2, are designated ubiquitin-domain proteins (UDPs). These proteins contain
	domains that are related to ubiquitin but are otherwise unrelated to each other. In contrast to
	UBLs, UDPs are not conjugated to other proteins. ISG15 (Interferon Stimulating Gene-15) show
	no amino acid sequence homology to cytokines and is synthesized as a precursor that is
	activated through processing by a thiol protease. ISG15 is secreted by monocytes and
	lymphocytes. Synthesis is induced in response to IFN-a or IFN-b or IFN-, but not IFN-g. ISG15
	expression is induced also by overexpression of some interferon regulatory factors that have
	been shown to play a role in the transcriptional regulation of IFN genes. ISG15 is secreted also
	by cell lines of monocyte (U937 cell line), T-lymphocyte, B-lymphocyte (DAUDI cells), human
	fibroblasts, and epithelial origins. The induction of terminal differentiation in human melanoma
	cells is associated, among other things, with alterations in the expression of ISG15.
	Intracellularly ISG15 has been shown to function as a ubiquitin homologue. It is known also as
	UCRP (ubiquitin cross-reactive protein). Serpin 2a (spi2a), a member of the serine protease
	inhibitor (serpin) protein family that is highly induced in macrophages during bacillus Calmette-
	Guerin infection has been shown to bind ISG15. ISG15 has been shown to modulate immune
	cell function. It possesses activities of cytokines and induces production of IFN-g. It enhances
	proliferation and functions of natural killer and LAK cells.
Gene ID:	9636, 4826774
UniProt:	P05161

Application Details

Application Notes:	Immunohistochemistry Dilution: User Optimized
	Application Note: This purified polyclonal antibody reacts with human ISG15 by western blot
	and ELISA. Although not tested, this antibody is likely functional in immunohistochemistry and
	immunoprecipitation. This antibody using the specified conditions may recognize other
	prominent intrinsic bands (UBLs or conjugates), especially at lower dilutions. An 18.5 kDa band
	corresponding to human ISG15 is detected. IFN α or IFN β stimulated HeLa cell lysates can be
	used as a positive control.
	Western Blot Dilution: 1:200 - 1:1,000

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Application Details	
	ELISA Dilution: 1:2,000 - 1:10,000
	Other: User Optimized
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 µL
	Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	5.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
	Stabilizer: None
	Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20°
	C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear
	after standing at room temperature. This product is stable for several weeks at 4° C as an
	undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months
Publications	
Product cited in:	Gall, Pryke, Abraham, Mizuno, Botto, Sali, Broeckel, Haese, Nilsen, Placzek, Morrison, Heise,
	Streblow, DeFilippis: "Emerging Alphaviruses Are Sensitive to Cellular States Induced by a Novel
	Small-Molecule Agonist of the STING Pathway." in: Journal of virology, Vol. 92, Issue 6, (2018) (
	PubMed).
	Ezzati, Komher, Severini, Coombs: "Comparative proteomic analyses demonstrate enhanced
	interferon and STAT-1 activation in reovirus T3D-infected HeLa cells." in: Frontiers in cellular
	and infection microbiology, Vol. 5, pp. 30, (2015) (PubMed).

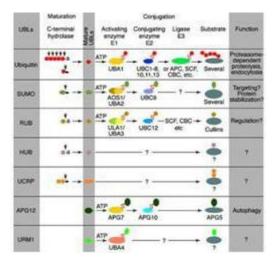
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/5 | Product datasheet for ABIN103335 | 03/28/2025 | Copyright antibodies-online. All rights reserved. Fields, Dumaop, Adame, Ellis, Letendre, Grant, Masliah: "Alterations in the levels of vesicular trafficking proteins involved in HIV replication in the brains and CSF of patients with HIVassociated neurocognitive disorders." in: **Journal of neuroimmune pharmacology : the official journal of the Society on NeuroImmune Pharmacology**, Vol. 8, Issue 5, pp. 1197-209, (2014) (PubMed).

Coombs: "HeLa cell response proteome alterations induced by mammalian reovirus T3D infection." in: **Virology journal**, Vol. 10, pp. 202, (2013) (PubMed).

Berard, Cortens, Krokhin, Wilkins, Severini, Coombs: "Quantification of the host response proteome after mammalian reovirus T1L infection." in: **PLoS ONE**, Vol. 7, Issue 12, pp. e51939, (2013) (PubMed).

There are more publications referencing this product on: Product page

Images



Western Blotting

Image 1. Immunoblot of hISG15 fusion protein. Anti-hISG15 antibody, generated by immunization with recombinant human ISG15, was tested by immunoblot against a hISG15-GFP fusion protein produced in E.coli cell lysate soluble fraction. Dilution of the antibody between 1:200 and 1:1,000 showed strong reactivity specifically with hISG15 and ISG15 coupled proteins. Free hISG15 is indicated by the arrowhead. In this blot the antibody was used at a 1:200 dilution incubated overnight at 4

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Hours post-infection	
	μ1 Reovirus-C σ3
	STAT1-C
	STAT1-N
	PARP-C
	PARP-N
	Mx1-C
	IFIT1-C
	ISG15-C
	GAPDH-C
	Actin-N

Western Blotting

Image 2. Western blot validation of host protein regulation. A, HeLa cells were mock-infected or infected for 24 h, or B, for indicated periods of time, harvested and lysed with 0.5 % NP-40 detergent. The cytosolic and nuclear fractions were separately purified, dissolved in SDS electrophoresis sample buffer, and proteins resolved in 10 % (A), or in 4-16 % gradient (B) SDS-PAGE, transferred to PVDF, and probed with indicated antibodies. Antibody binding was detected with HRP-conjugated secondary antibodies and ECL, and visualized with an Alpha Innotech FluorChemQ MultiImage III instrument. Molecular weight standards are indicated at left and SILAC-measured ratios are indicated on right in A. *: not detected in indicated fraction, : based on single peptide only. - figure provided by CiteAb.Source: PMID23799967