ISG15 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ISG15, Polyclonal Antibody
Full Product Name	Anti-ISG15 Antibody, Rabbit Polyclonal
Product Gene Name	anti-ISG15 antibody
Product Synonym Names	ISG15 Antibody, Rabbit PAb; ISG15 ubiquitin-like modifier; Anti-G1P2 Antibody; Anti-hUCRP Antibody; Anti-IFI15 Antibody; Anti-IMD38 Antibody; Anti-IP17 Antibody; Anti-UCRP Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A
Specificity	Human ISG15
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	17,888 Da
Immunogen	Recombinant Human ISG15 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human ISG15 (rh ISG15). Total IgG was purified by Protein A affinity chromatography.
Applications Tested/Suitable for anti-ISG15 antibody	ELISA (EIA)
Application Notes for anti-ISG15 antibody	ELISA: 1:1000-1:2000
Related Product Information for anti-ISG15 antibody	Interferon-induced 17 kDa protein (ISG15), a 15-kDa protein of unique primary amino acid sequence, functions intracellularly as a ubiquitin homolog and a cytokine that induces production of IFN-gamma and augments NK/lymphokine-activated killer cell proliferation and function. ISG15 is secreted from monocytes and lymphocytes. ISG15 is a ubiquitin-like molecule that is strongly upregulated by type I interferons as a primary response to diverse microbial and cellular stress stimuli. Alterations in the ISG15 signaling pathway have also been found in several human tumor entities. In addition to being stimulated by type I interferon, expression of ISG15 is greatly induced by viral or bacterial infection through the Janus kinase/signal transducer and activator of transcription (Jak/STAT) signaling pathway. After induction, ISG15 is secreted by monocytes, B-and T-lymphocytes, and fibroblasts. We demonstrate the novel way in which the function of the ISG15 protein is inhibited by influenza B virus, which strongly induces the ISG15 protein: a specific region of the influenza B virus NS1 protein, which includes part of its effector domain, blocks the covalent linkage of ISG15 to its target proteins both in vitro and in infected cells.
Product References and Citations for anti-ISG15 antibody	Cunha J, et al. (1996) In vitro and in vivo secretion of human ISG15, an IFN-induced immunomodulatory cytokine. J Immunol. 157(9): 4100-8.Andersen JB, et al. (2006) The interferon regulated ubiquitin-like protein, ISG15, in tumorigenesis: friend or foe? Cytokine Growth Factor Rev. 17(6): 411-21.Nuran Bektas, et al. (2008) The ubiquitin-like molecule interferon-stimulated gene 15 (ISG15) is a potential prognostic marker in human breast cancer. Breast Cancer Res. 10(4): 58.

Other Notes	Small volumes of anti-ISG15 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ISG15 purchase	MBS8106593 is an antibody targeting ISG15. Also known as Anti-ISG15 Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ISG15. It may not necessarily be applicable to this product.

NCBI GI #	14550514
NCBI GeneID	9636
NCBI Accession #	AAH09507.1
UniProt Secondary Accession #	Q5SVA4; Q7Z2G2; Q96GF0
UniProt Related Accession #	P05161
NCBI Official Full Name	ISG15 ubiquitin-like modifier
NCBI Official Synonym Full Names	ISG15 ubiquitin-like modifier
NCBI Official Symbol	ISG15
NCBI Official Synonym Symbols	G1P2; IP17; UCRP; IFI15; hUCRP
Protein Family	Ubiquitin-like protein
NCBI Protein Information	ubiquitin-like protein ISG15; ubiquitin cross-reactive protein; interferon-stimulated protein, 15 kDa; interferon-induced 17-kDa/15-kDa protein; interferon, alpha-inducible protein (clone IFI-15K)
NCBI Summary for ISG15	The protein encoded by this gene is a ubiquitin-like protein that is conjugated to intracellular target proteins upon activation by interferon-alpha and interferon-beta. Several functions have been ascribed to the encoded protein, including chemotactic activity towards neutrophils, direction of ligated target proteins to intermediate filaments, cell-to-cell signaling, and antiviral activity during viral infections. While conjugates of this protein have been found to be noncovalently attached to intermediate filaments, this protein is sometimes secreted. [provided by RefSeq, Dec 2012]
Research Articles on ISG15	**1.** ISG15 does not appear to play a key role in IFN-beta-mediated C2C12 myoblast cell fusion
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