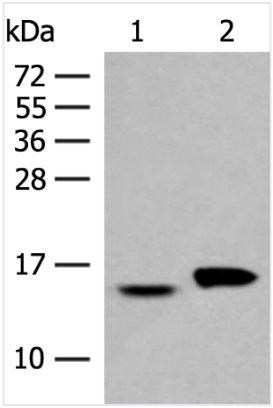
ISG15 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ISG15, Polyclonal Antibody
Full Product Name	ISG15 Polyclonal Antibody
Product Gene Name	anti-ISG15 antibody
Product Synonym Names	G1P2; HUCRP; IFI 15; IFI15; Interferon alpha inducible protein; Interferon induced protein 15; Interferon induced protein IFI-15K; Interferon stimulated protein 15 kDa; Interferon; Alpha-inducible protein (clone IFI-15K); Interferon-induced 15 kDa protein; Interferon-induced 17 kDa protein; Interferon-induced 17-kDa/15-kDa protein; IP17; ISG 15; ISG15; ISG15 ubiquitin like modifier; ISG15; Ubiquitin cross-reactive protein; Ubiquitin-like protein ISG15; UCRP
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.05% NaN3 and 40% Glycerol, pH7.4
Purity/Purification	Antigen Affinity Purification
Concentration	1.5mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	18 kDa
OMIM	147571
3D Structure	ModBase 3D Structure for P05161
Immunogen	Fusion protein of human ISG15
Conjugation	Unconjugated
Product Categories/Family for anti-ISG15 antibody	Cell Biology; Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ISG15 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ISG15 antibody	WB: 1:500-1:2000 ELISA: 1:5000-1:10000
Related Product Information for anti-ISG15 antibody	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.
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	MBS2562601 is an antibody targeting ISG15. Also known as ISG15 Polyclonal Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ISG15 antibody
Western blot analysis of Hela and PC3 cell lysates using ISG15 Polyclonal Antibody at dilution of 1:500

ADDITIONAL DETAILS

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

NCBI GI #	4826774
NCBI GeneID	9636
NCBI Accession #	NP_005092.1
NCBI Related Accession #	BC009507
UniProt Primary Accession #	P05161
UniProt Related Accession #	P05161
GenBank Nucleotide #	NP_005092.1
NCBI Official Full Name	ubiquitin-like protein ISG15
NCBI Official Synonym Full Names	ISG15 ubiquitin like modifier
NCBI Official Symbol	ISG15
NCBI Official Synonym Symbols	G1P2; IP17; UCRP; IFI15; IMD38; hUCRP
UniProt Protein Name	Ubiquitin-like protein ISG15
UniProt Synonym Protein Names	Interferon-induced 15 kDa protein; Interferon-induced 17 kDa protein; IP17; Ubiquitin cross-reactive protein
Protein Family	Ubiquitin-like protein
UniProt Gene Name	ISG15
UniProt Synonym Gene Names	G1P2; UCRP; IP17; hUCRP
UniProt Entry Name	ISG15_HUMAN
NCBI Protein Information	ubiquitin-like protein ISG15

UniProt Comments for ISG15	ISG15: Ubiquitin-like protein that is conjugated to intracellular target proteins after IFN-alpha or IFN-beta stimulation. Its enzymatic pathway is partially distinct from that of ubiquitin, differing in substrate specificity and interaction with ligating enzymes. ISG15 conjugation pathway uses a dedicated E1 enzyme, but seems to converge with the Ub conjugation pathway at the level of a specific E2 enzyme. Targets include STAT1, SERPINA3G/SPI2A, JAK1, MAPK3/ERK1, PLCG1, EIF2AK2/PKR, MX1/MxA, and RIG-1. Deconjugated by USP18/UBP43. Shows specific chemotactic activity towards neutrophils and activates them to induce release of eosinophil chemotactic factors. May serve as a trans-acting binding factor directing the association of ligated target proteins to intermediate filaments. May also be involved in autocrine, paracrine and endocrine mechanisms, as in cell-to-cell signaling, possibly partly by inducing IFN-gamma secretion by monocytes and macrophages. Seems to display antiviral activity during viral infections. Interacts with, and is conjugated to its targets by the UBE1L (E1 enzyme) and UBE2E2 (E2 enzyme) (Probable). Interaction with influenza B NS1 protein inhibits this conjugation. By type I interferons. Detected in lymphoid cells, striated and smooth muscle, several epithelia and neurons. Protein type: Ubiquitin-like modifier Chromosomal Location of Human Ortholog: 1p36.33 Cellular Component: extracellular region; cytosol Molecular Function: protein tag; protein binding Biological Process: modification-dependent protein catabolic process; ISG15-protein conjugation; viral reproduction; negative regulation of viral genome replication; regulation of interferon-gamma production; cytokine and chemokine mediated signaling pathway; positive regulation of erythrocyte differentiation; defense response to bacterium; innate immune response; negative regulation of protein ubiquitination; defense response to virus; negative regulation of interferon type I production Disease: Immunodeficiency 38
Research Articles on ISG15	**1.** The current study revealed that BAG3 did not interact with ISG15, but positively regulated ISG15 expression in pancreatic ductal adenocarcinoma cancer.
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