



## ISG15 (ANT0027R) Rabbit mAb

CatalogNo: ANT8070 **Recombinant R**

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA  
Quantity : 100 ug/vial

### Host Species

- Rabbit
- Human,

### Reactivity

- WB,IF,IP,ELISA

### Applications

### MW

- 18kD (Calculated)
  - IgG,Kappa
- 18kD (Observed)

### Isotype

## Recommended Dilution Ratios

WB 1:500-1:2000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200,

## Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)

## Basic Information

**Clonality** Monoclonal

**Clone Number** ANT0027R

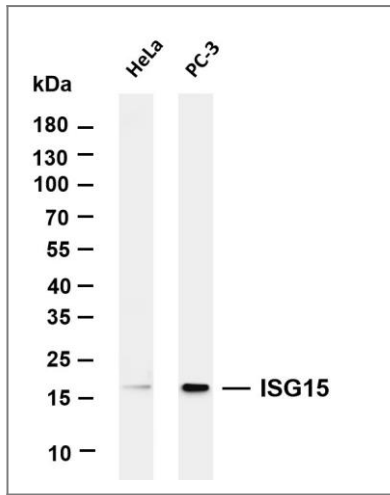
## Immunogen Information

**Sequence** Ubiquitin-like protein ISG15 (Interferon-induced 15 kDa protein) (Interferon-induced 17 kDa protein) (IP17) (Ubiquitin cross-reactive protein) (hUCRP)

## Target Information

Gene name	>>RIG-I-like receptor signaling pathway;>>Human papillomavirus infection;>>Epstein-Barr virus infection;>>Coronavirus disease - COVID-19		
Protein Name	ISG15 G1P2 UCRP		
	Organism	Gene ID	UniProt ID
	Human	<a href="#">9636;</a>	<a href="#">P05161;</a>
	Mouse		<a href="#">Q64339;</a>
Cellular Localization	Cytoplasm		
Tissue specificity	Detected in lymphoid cells, striated and smooth muscle, several epithelia and neurons. Expressed in neutrophils, monocytes and lymphocytes. Enhanced expression seen in pancreatic adenocarcinoma, endometrial cancer, and bladder cancer, as compared to noncancerous tissue. In bladder cancer, the increase in expression exhibits a striking positive correlation with more advanced stages of the disease.		
Function	Function:In response to IFN-tau secreted by the conceptus, may ligate to and regulate proteins involved in the release of prostaglandin F2-alpha (PGF), and thus prevent lysis of the corpus luteum and maintain the pregnancy.,Function: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.,induction:By type I interferons.,similarity:Contains 2 ubiquitin-like domains.,subcellular location:UCRP conjugates seem to be noncovalently associated with the intermediate filaments and distributed in a punctate pattern. Also secreted.,subunit: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.,tissue specificity:Detected in lymphoid cells, striated and smooth muscle, several epithelia and neurons.,		

## Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-ISG15 (ANT0027R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: PC-3 Predicted band size: 18kDa Observed band size: 18kDa

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