Ubiquitin Cross Reactive (UCRP) ELISA Kit for Pigeon

PRODUCT OVERVIEW

Product Name	Ubiquitin Cross Reactive Protein (UCRP), ELISA Kit
Full Product Name	Pigeon Ubiquitin Cross Reactive Protein ELISA Kit
Product Gene Name	UCRP elisa kit
Species Reactivity	Pigeon
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	17,888 Da
OMIM	147571
3D Structure	ModBase 3D Structure for P05161
Related Product Information for UCRP elisa kit	MBS057413 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Ubiquitin Cross Reactive Protein (UCRP) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing UCRP. The ELISA analytical biochemical technique of the MBS057413 kit is based on UCRP antibody-UCRP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect UCRP antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, UCRP. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of UCRP elisa kit 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.

ADDITIONAL DETAILS

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

NCBI GI #	4826774
NCBI GeneID	9636
NCBI Accession #	NP_005092.1
UniProt Primary Accession #	P05161
UniProt Secondary Accession #	Q5SVA4; Q7Z2G2; Q96GF0
UniProt Related Accession #	P05161
GenBank Nucleotide #	NM_005101.3
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; 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; 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 UCRP	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]
UniProt Comments for UCRP	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: ISG15-protein conjugation; modification-dependent protein catabolic process; viral reproduction; negative regulation of viral genome replication; regulation of interferon-gamma production; positive regulation of erythrocyte differentiation; cytokine and chemokine mediated signaling pathway; defense response to bacterium; innate immune response; negative regulation of protein ubiquitination; negative regulation of interferon type I production; defense response to virus Disease: Immunodeficiency 38
Research Articles on UCRP	**1.** ISG15 is a potential prognostic marker in high-grade serous carcinoma of the ovary
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