Ubiquitin Protein Ligase E3 Component N-Recognin 4 (UBR4) ELISA Kit for Cat

PRODUCT OVERVIEW

Product Name	Ubiquitin Protein Ligase E3 Component N-Recognin 4 (UBR4), ELISA Kit
Full Product Name	Cat Ubiquitin Protein Ligase E3 Component N-Recognin 4 ELISA Kit
Product Gene Name	UBR4 elisa kit
Species Reactivity	Cat
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	200,211 Da
OMIM	243800
3D Structure	ModBase 3D Structure for Q8IWV7
Related Product Information for UBR4 elisa kit	MBS078342 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Ubiquitin Protein Ligase E3 Component N-Recognin 4 (UBR4) 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 UBR4. The ELISA analytical biochemical technique of the MBS078342 kit is based on UBR4 antibody-UBR4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect UBR4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, UBR4. 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 UBR4 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 UBR4. It may not necessarily be applicable to this product.

NCBI GI #	119612990
NCBI GeneID	197131
NCBI Accession #	EAW92584.1
UniProt Primary Accession #	Q8IWV7
UniProt Secondary Accession #	O60708; O75492; Q14D45; Q68DN9; Q8IWY6; Q96JY4
UniProt Related Accession #	Q8IWV7
NCBI Official Full Name	ubiquitin protein ligase E3 component n-recognin 1
NCBI Official Synonym Full Names	ubiquitin protein ligase E3 component n-recognin 1
NCBI Official Symbol	UBR1
NCBI Official Synonym Symbols	JBS
UniProt Protein Name	E3 ubiquitin-protein ligase UBR1
UniProt Synonym Protein Names	N-recognin-1; Ubiquitin-protein ligase E3-alpha-1; Ubiquitin-protein ligase E3-alpha-I
Protein Family	E3 ubiquitin-protein ligase

UniProt Gene Name	UBR1
UniProt Entry Name	UBR1_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase UBR1; E3a ligase; N-recognin-1; ubiquitin ligase E3 alpha-I; ubiquitin-protein ligase E3-alpha; ubiquitin-protein ligase E3-alpha-1; ubiquitin-protein ligase E3-alpha-I
NCBI Summary for UBR4	The N-end rule pathway is one proteolytic pathway of the ubiquitin system. The recognition component of this pathway, encoded by this gene, binds to a destabilizing N-terminal residue of a substrate protein and participates in the formation of a substrate-linked multiubiquitin chain. This leads to the eventual degradation of the substrate protein. The protein described in this record has a RING-type zinc finger and a UBR-type zinc finger. Mutations in this gene have been associated with Johanson-Blizzard syndrome. [provided by RefSeq, Jul 2008]
UniProt Comments for UBR4	UBR1: E3 ubiquitin-protein ligase which is a component of the N-end rule pathway. Recognizes and binds to proteins bearing specific N-terminal residues that are destabilizing according to the N-end rule, leading to their ubiquitination and subsequent degradation. May be involved in pancreatic homeostasis. Binds leucine and is a negative regulator of the leucine-mTOR signaling pathway, thereby controlling cell growth. Defects in UBR1 are a cause of Johanson-Blizzard syndrome (JBS). This disorder includes congenital exocrine pancreatic insufficiency, multiple malformations such as nasal wing aplasia, and frequent mental retardation. Pancreas of individuals with JBS do not express UBR1 and show intrauterine- onset destructive pancreatitis. Belongs to the UBR1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin ligase; Ubiquitin conjugating system; EC 6.3.2.19; Ligase; EC 6.3.2.- Chromosomal Location of Human Ortholog: 15q13 Cellular Component: proteasome complex; cytosol; ubiquitin ligase complex Molecular Function: zinc ion binding; ubiquitin-protein ligase activity; ligase activity Biological Process: ubiquitin-dependent protein catabolic process; negative regulation of TOR signaling pathway; protein ubiquitination Disease: Johanson-blizzard Syndrome
Research Articles on UBR4	**1.** Testing the fetus and the affected sibling with recurrent Johanson-Blizzard syndrome revealed a homozygous truncating mutation in UBR1.
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