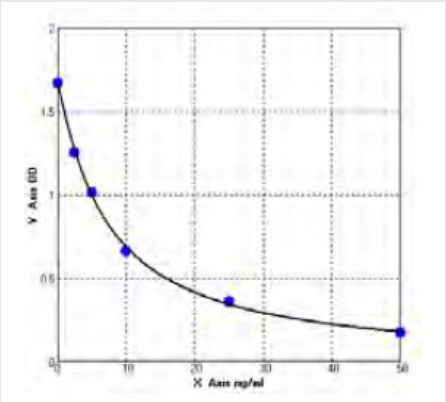
Deubiquitinating Enzyme (DUB) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Deubiquitinating enzyme (DUB), ELISA Kit
Full Product Name	Human Deubiquitinating enzyme ELISA Kit
Product Gene Name	DUB elisa kit
Species Reactivity	Human
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of DUB. No significant cross-reactivity or interference between DUB and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between DUB and all the analogues, therefore, cross reaction may still exist in some cases.
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	27,094 Da
OMIM	604731
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for DUB elisa kit	Intended Uses: This DUB ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human DUB. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: DUB ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-DUB antibody and an DUB-HRP conjugate. The assay sample and buffer are incubated together with DUB-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the DUB concentration since DUB from samples and DUB-HRP conjugate compete for the anti-DUB antibody binding site. Since the number of sites is limited, as more sites are occupied by DUB from the sample, fewer sites are left to bind DUB-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The DUB concentration in each sample is interpolated from this standard curve.
Other Notes	Small volumes of DUB 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.
Searchable Terms for DUB purchase	MBS727833 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Deubiquitinating enzyme (DUB) 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 DUB. The ELISA analytical biochemical technique of the MBS727833 kit is based on DUB antibody-DUB antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DUB antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DUB. 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(%).



Typical Testing Data/Standard Curve (for reference only) of DUB elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	5814097
NCBI GeneID	9958
NCBI Accession #	AAD52099.1
UniProt Secondary Accession #	Q08AL5; Q9H8G9; Q9HCA6; Q9UNP0; Q9Y5B5
UniProt Related Accession #	Q9Y4E8
NCBI Official Full Name	deubiquitinating enzyme
NCBI Official Synonym Full Names	ubiquitin specific peptidase 15
NCBI Official Symbol	USP15
NCBI Official Synonym Symbols	UNPH4; UNPH-2
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 15
UniProt Synonym Protein Names	Deubiquitinating enzyme 15; Ubiquitin thioesterase 15; Ubiquitin-specific-processing protease 15; Unph-2; Unph4
Protein Family	Deubiquitinase
UniProt Gene Name	USP15
UniProt Synonym Gene Names	KIAA0529
UniProt Entry Name	UBP15_HUMAN
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 15; ubiquitin thioesterase 15; deubiquitinating enzyme 15; ubiquitin thiolesterase 15; ubiquitin-specific-processing protease 15
NCBI Summary for DUB	This gene encodes a member of the ubiquitin specific protease (USP) family of deubiquitinating enzymes. USP enzymes play critical roles in ubiquitin-dependent processes through polyubiquitin chain disassembly and hydrolysis of ubiquitin-substrate bonds. The encoded protein associates with the COP9 signalosome, and also plays a role in transforming growth factor beta signalling through deubiquitination of receptor-activated SMAD transcription factors. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 2. [provided by RefSeq, Nov 2011]

UniProt Comments for DUB	USP15: Protease that degrades 'Lys-48'-linked polyubiquitin chains. Protects target proteins against proteasomal degradation. Protects APC and human papillomavirus type 16 protein E6 against degradation via the ubiquitin proteasome pathway. Belongs to the peptidase C19 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.19.12; Ubiquitin-specific protease; Protease; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 12q14 Cellular Component: cytoplasm; nucleus Molecular Function: identical protein binding; protein binding; cysteine-type endopeptidase activity; ubiquitin-specific protease activity; SMAD binding; transforming growth factor beta receptor binding Biological Process: BMP signaling pathway; proteasomal ubiquitin-dependent protein catabolic process; protein deubiquitination; transforming growth factor beta receptor signaling pathway; negative regulation of transforming growth factor beta receptor signaling pathway
Research Articles on DUB	**1.** Data indicate ubiquitin-specific protease 15 (USP15) as a critical regulator of the tripartite motif protein 25 (TRIM25)- and RNA sensor retinoic acid-inducible gene-I (RIG-I)-mediated antiviral immune response.
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