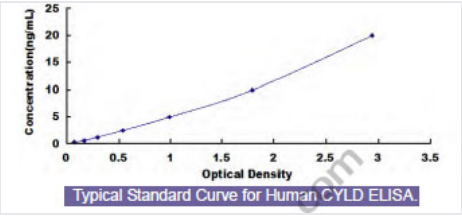
Cylindromatosis (CYLD) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cylindromatosis (CYLD), ELISA Kit
Full Product Name	Human Cylindromatosis (CYLD) ELISA Kit
Product Gene Name	CYLD elisa kit
Product Synonym Names	CDMT; CYLD1; CYLDI; EAC; USPL2; Turban Tumor Syndrome; Ubiquitin Carboxyl-Terminal Hydrolase CYLD; Ubiquitin Specific Peptidase Like 2; Deubiquitinating enzyme CYLD
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue homogenates, cell lysates and other biological fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.117ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of CYLD. No significant cross-reactivity or interference between CYLD and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CYLD were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CYLD were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	107,044 Da
OMIM	AJ250014 mRNA
3D Structure	ModBase 3D Structure for Q9NQC7
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CYLD elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CYLD in human tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CYLD. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CYLD. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CYLD, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of CYLD in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CYLD 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 CYLD purchase	MBS454849 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cylindromatosis (CYLD) 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 CYLD. The ELISA analytical biochemical technique of the MBS454849 kit is based on CYLD antibody-CYLD antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CYLD antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CYLD. 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 CYLD elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	109637774
NCBI GeneID	1540
NCBI Accession #	NP_001035814.1
UniProt Primary Accession #	Q9NQC7
UniProt Secondary Accession #	O94934; Q7L3N6; Q96EH0; Q9NZX9
UniProt Related Accession #	Q9NQC7
GenBank Nucleotide #	NM_001042355.1
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase CYLD isoform 2
NCBI Official Synonym Full Names	CYLD lysine 63 deubiquitinase
NCBI Official Symbol	CYLD
NCBI Official Synonym Symbols	EAC; MFT; SBS; TEM; BRSS; CDMT; MFT1; CYLD1; CYLDI; USPL2
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase CYLD
UniProt Synonym Protein Names	Deubiquitinating enzyme CYLD; Ubiquitin thioesterase CYLD; Ubiquitin-specific-processing protease CYLD
Protein Family	Ubiquitin carboxyl-terminal hydrolase
UniProt Gene Name	CYLD
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase CYLD
NCBI Summary for CYLD	This gene is encodes a cytoplasmic protein with three cytoskeletal-associated protein-glycine-conserved (CAP-GLY) domains that functions as a deubiquitinating enzyme. Mutations in this gene have been associated with cylindromatosis, multiple familial trichoepithelioma, and Brooke-Spiegler syndrome. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

UniProt Comments for CYLD	Deubiquitinase that specifically cleaves 'Lys-63'-linked polyubiquitin chains. Has endodeubiquitinase activity. Plays an important role in the regulation of pathways leading to NF-kappa-B activation (PubMed:12917689, PubMed:12917691). Contributes to the regulation of cell survival, proliferation and differentiation via its effects on NF-kappa-B activation (PubMed:12917690). Negative regulator of Wnt signaling (PubMed:20227366). Inhibits HDAC6 and thereby promotes acetylation of alpha-tubulin and stabilization of microtubules (PubMed:19893491). Plays a role in the regulation of microtubule dynamics, and thereby contributes to the regulation of cell proliferation, cell polarization, cell migration, and angiogenesis (PubMed:18222923, PubMed:20194890). Required for normal cell cycle progress and normal cytokinesis (PubMed:17495026, PubMed:19893491). Inhibits nuclear translocation of NF-kappa-B. Plays a role in the regulation of inflammation and the innate immune response, via its effects on NF-kappa-B activation (PubMed:18636086). Dispensable for the maturation of intrathymic natural killer cells, but required for the continued survival of immature natural killer cells. Negatively regulates TNFRSF11A signaling and osteoclastogenesis (). Involved in the regulation of ciliogenesis, allowing ciliary basal bodies to migrate and dock to the plasma membrane; this process does not depend on NF-kappa-B activation (). Also able to remove linear ('Met-1'-linked) polyubiquitin chains to regulate innate immunity: recruited to the LUBAC complex and, together with OTULIN, restricts linear polyubiquitin formation on RIPK2 in response to NOD2 stimulation (PubMed:26670046, PubMed:26997266).
Research Articles on CYLD	**1.** Novel CYLD germline mutations c.1821_1826+1delinsCT/L607Ffs*9, c.2666A>T/p.D889V and c.2712delT/p.905Kfs*8 were identified in unrelated Brooke-Spiegler Syndrome patients.
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