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Datasheet for ABIN2115459

**Ubiquitin B Protein (UBB) (AA 153-228) (GST tag,His tag)**

## Overview

Quantity:	50 µg
Target:	Ubiquitin B (UBB)
Protein Characteristics:	AA 153-228
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Ubiquitin B protein is labelled with GST tag,His tag.

## Product Details

Purpose:	Recombinant Human Polyubiquitin-B/UBB (N-GST, 6His)
Sequence:	MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD GSTSGSGHHH HHHSAGLVPR GSTAIGMKET AAKFERQHM DSPDLGTGGG SGDDDDKSPM GYRGSMQIFV KTLTGKTITL EVEPSDTIEN VKAKIQDKEG IPPDQQLIF AGKQLEDGRT LSDYNIQKES TLHLVLRLRG G
Characteristics:	Recombinant Human Polyubiquitin-B is produced with our E. coli expression system. The target protein is expressed with sequence (Met153-Gly228) of Human UBB fused with a GST-His-S.tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

## Product Details

Endotoxin Level: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

## Target Details

Target: Ubiquitin B (UBB)

Alternative Name: UBB ([UBB Products](#))

Background: Polyubiquitin-B contains 3 ubiquitin-like domains, which belongs to the ubiquitin family. Polyubiquitin chains, when attached to a target protein, have different functions depending on the Lys residue of the ubiquitin that is linked: Lys-6-linked may be involved in DNA repair, Lys-11-linked is involved in ERAD and cell-cycle regulation, Lys-29-linked is involved in lysosomal degradation, Lys-33-linked is involved in kinase modification, Lys-48-linked is part in protein degradation via the proteasome, Lys-63-linked is involved in endocytosis, DNA-damage responses as well as in signaling processes leading to activation of the transcription factor NF-kappa-B. Linear polymer chains formed via attachment by the initiator Met lead to cell signaling. Ubiquitin is usually conjugated to Lys residues of target proteins, however, in rare cases, conjugation to Cys or Ser residues has been observed. When polyubiquitin is free (unanchored-polyubiquitin), it also has distinct roles, such as in activation of protein kinases, and in signaling. Synonyms: Polyubiquitin-B,UBB

Molecular Weight: 40.9 kDa

UniProt: [P0CG47](#)

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [Toll-Like Receptors Cascades](#), [Synthesis of DNA](#), [Autophagy](#), [EGFR Downregulation](#), [Ubiquitin Proteasome Pathway](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 μg/mL.  
Dissolve the lyophilized protein in ddH<sub>2</sub>O.  
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## Handling

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Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at &lt; -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>