



[Go to Product page](#)

Datasheet for ABIN2723516

IDE Protein (Myc-DYKDDDDK Tag)

1 Image

1 Publication

Overview

Quantity:	20 µg
Target:	IDE
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IDE protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Standard (STD)

Product Details

Characteristics:	<ul style="list-style-type: none">• Recombinant human Insulin-degrading enzyme protein expressed in HEK293 cells.• Produced with end-sequenced ORF clone
------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
---------	--------------------------------------------------------------

Target Details

Target:	IDE
Alternative Name:	Insulin-Degrading Enzyme (IDE Products)
Background:	This gene encodes a zinc metallopeptidase that degrades intracellular insulin, and thereby terminates insulin's activity, as well as participating in intercellular peptide signalling by degrading diverse peptides such as glucagon, amylin, bradykinin, and kallidin. The preferential affinity of this enzyme for insulin results in insulin-mediated inhibition of the degradation of other peptides such as beta-amyloid. Deficiencies in this protein's function are associated with

Target Details

Alzheimer's disease and type 2 diabetes mellitus but mutations in this gene have not been shown to be causative for these diseases. This protein localizes primarily to the cytoplasm but in some cell types localizes to the extracellular space, cell membrane, peroxisome, and mitochondrion. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described but have not been experimentally verified.[provided by RefSeq, Sep 2009].

Molecular Weight: 117.8 kDa

NCBI Accession: [NP_004960](#)

Pathways: [SARS-CoV-2 Protein Interactome](#)

Application Details

Application Notes: Recombinant human proteins can be used for:
Native antigens for optimized antibody production
Positive controls in ELISA and other antibody assays

Comment: The tag is located at the C-terminal.

Restrictions: For Research Use only

Handling

Concentration: 50 µg/mL

Buffer: 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

Storage: -80 °C

Storage Comment: Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.

Publications

Product cited in: Pan, Zhou, Mahsut, Rohm, Berejnaia, Price, Chen, Castro-Perez, Lassman, McLaren, Conway, Jensen, Thomas, Reyes-Soffer, Ginsberg, Gutstein, Cleary, Previs, Roddy: "Static and turnover kinetic measurement of protein biomarkers involved in triglyceride metabolism including apoB48 and apoA5 by LC/MS/MS." in: **Journal of lipid research**, Vol. 55, Issue 6, pp. 1179-87, (2016) ([PubMed](#)).

Chen, Chung, Wu, Ng, Yu, Tsai, Chang, Liang, Tsui, Chen: "Comparative Tissue Proteomics of

Microdissected Specimens Reveals Novel Candidate Biomarkers of Bladder Cancer." in:

Molecular & cellular proteomics : MCP, (2015) ([PubMed](#)).

Cantó, Tintoré, Villar, Costa, Nurtdinov, Álvarez-Cermeño, Arrambide, Reverter, Deisenhammer, Hegen, Khademi, Olsson, Tumani, Rodríguez-Martín, Piehl, Bartos, Zimova, Kotoucova, Kuhle, Kappos et al.: "Chitinase 3-like 1: prognostic biomarker in clinically isolated syndromes. ..." in:

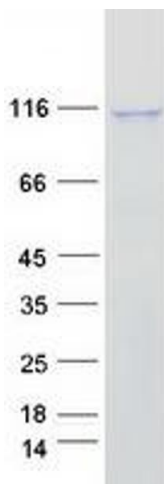
Brain : a journal of neurology, Vol. 138, Issue Pt 4, pp. 918-31, (2015) ([PubMed](#)).

Wen, Ma, Cheng, Jiang, Xu, Zhang, Zhang, Guo, Yu, Xu, Qian, Cao, An: "Stk38 protein kinase preferentially inhibits TLR9-activated inflammatory responses by promoting MEKK2 ubiquitination in macrophages." in: **Nature communications**, Vol. 6, pp. 7167, (2015) ([PubMed](#)).

Lin, Sivakumaran, Jones, Li, Harper, Wei, Jin, Rustanti, Meunier, Spann, Harrich: "A HIV-1 Tat mutant protein disrupts HIV-1 Rev function by targeting the DEAD-box RNA helicase DDX1." in:

Retrovirology, Vol. 11, pp. 121, (2015) ([PubMed](#)).

Images



Western Blotting

Image 1. Validation with Western Blot