

Product datasheet for PH311950

E2 230K (UBE2O) (NM_022066) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	UBE2O MS Standard C13 and N15-labeled recombinant protein (NP_071349)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211950
Predicted MW:	141.1 kDa
Protein Sequence:	>RC211950 representing NM_022066 Red=Cloning site Green=Tags(s)

MADPAAPTPAAPAPAPAPEAVPAPAAAPVPAPAPASDSASGSPSSDSGPEAGSQRLLFSHDLVSGRY
RGSVHFGLVRLIHGEDSDSEGEIEGRGSSGCSEAGGAGHEEGRASPLRRGYVRVQWYPEGVKQHVKETKL
KLEDRSVVRDVRHMRSTDSQCGTVIDVNICAVKLIIGNCIIYPVNSKDLQHIWPFMYGDYIAYDCWL
GKYYDLKNQIILKLSNGARCSMNTEDGAKLYDVCPHVSDSGLFFDDSYGFYPGQVLI GPAKIFSSVQWLS
GKVPVLSKSKFRVVVEEVQVVELKVTWITKSFPCGGTDSVSPPPSVITQENLGRVKRLGCFDHAQRQLG
ERCLYVFPKVEPAKIAWECPEKNCAQGEKMAKKVKRLLKKQVVRIMSCSPDTQCSRDHSMEDPKKGE
SKTKSEAESASPEETPDGSASPVEMQDEGAEPEHEAGEQLPPFLLEKGRDDLHSAEQDADDEAADDTDD
TSSVTSSASSTSSQSGSGTSRKKSIPLSIKNLKRKHKRKKNKI TRDFKPGDRVAEVVTTMTSADVMWQ
DGSVECNIRSNDFPVHHLDNNEFCPGDFVVDKRVQSCDPAVYGVVQSGDHIGRTCMVKWFKLRPSGDD
VELIGEEEDVSVDIADHPDFRFRRTDIVIRIGNTEGAPHEDEPSVGVQVARVDVSSKVEVWADNSKT
IILPQHLNIESEIEESDYDSVEGSTSGASSDEWEDSDSWETDNLVEDEHPKIEEPIPPLEQPVAP
DKGVVISEEAATAAVQGAVAMAAPMAGLMEKAGKDGPPKSFRELKEAIKILESLKNMTVEQLL TGSPTSP
TVEPEKPTREKKFLDDIKKLQENLKKTLDNVAIVVEEKMEAVPDVERKEDKPEGQSPVKAEPSETPVLC
QQCGGKPGVTFSTAKGEVFSVLEFAPSNHSFKKIEFQPPEAKKFFSTVRKEMALLATSLPEGIMVKTFFD
RMDLFSALIKGPTRTPYEDGLYLFDIQLPNIYPVPPHFCYLSQCSGRLNPNLYDNGKVCVSLLTGWIGK
GTERWTSKSSLLQVLSIQGLILVNEPYNEAGFDSRGLQEGYENSRCYNEMALIRVVQSMQTLVRRPP
EVFEQEIHQHFSTGGWRLVNRIESWLETHALLEKAQALPNGVPKASSPEPPAVAEALSQSGQEPEDGGP
APGEASQSDSEGAQGLASASRDHTDQTSETAPDASVPPSVKPKRRKRSYRSFLPEKSGYPDIFGLPLF
LSKGFIKSIRGVLTFRAALLEAGMPECTEDK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method



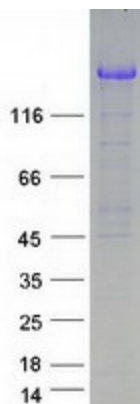
[View online »](#)

Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_071349
RefSeq Size:	5073
RefSeq ORF:	3876
Synonyms:	E2-230K
Locus ID:	63893
UniProt ID:	Q9C0C9
Cytogenetics:	17q25.1

Summary: E2/E3 hybrid ubiquitin-protein ligase that displays both E2 and E3 ligase activities and mediates monoubiquitination of target proteins (PubMed:23455153, PubMed:24703950). Negatively regulates TRAF6-mediated NF-kappa-B activation independently of its E2 activity (PubMed:23381138). Acts as a positive regulator of BMP7 signaling by mediating monoubiquitination of SMAD6, thereby regulating adipogenesis (PubMed:23455153). Mediates monoubiquitination at different sites of the nuclear localization signal (NLS) of BAP1, leading to cytoplasmic retention of BAP1. Also able to monoubiquitinate the NLS of other chromatin-associated proteins, such as INO80 and CXXC1, affecting their subcellular location (PubMed:24703950). Acts as a regulator of retrograde transport by assisting the TRIM27:MAGEL2 E3 ubiquitin ligase complex to mediate 'Lys-63'-linked ubiquitination of WASHC1, leading to promote endosomal F-actin assembly (PubMed:23452853). [UniProtKB/Swiss-Prot Function]

Protein Pathways: Ubiquitin mediated proteolysis

Product images:



Coomassie blue staining of purified UBE2O protein (Cat# [TP311950]). The protein was produced from HEK293T cells transfected with UBE2O cDNA clone (Cat# [RC211950]) using MegaTran 2.0 (Cat# [TT210002]).