

Product datasheet for TP311950

E2 230K (UBE2O) (NM_022066) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens ubiquitin-conjugating enzyme E2O (UBE2O), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211950 representing NM_022066 Red =Cloning site Green =Tags(s)

MADPAAPTAAAPAPAQAPAPAPEAVPAPAAAAPVPAPAPASDSASGPSSDSGPEAGSQRLLFSHDLVSGRY
RGSVHFGLVRLIHGEDSDSEGEIEGRGSSGCSEAGGAGHEEGRASPLRRGYVRVQWYPEGVKQHVKETKL
KLEDRSVPRDVVRHMRSTDSQCGTVIDVNIDCAVKLIGTNCIIPVNSKDLQHIWPFMYGDYIAYDCWL
GKVYDLKNQIILKLSNGARCSMNTEDGAKLYDVCPHVSDSGLFFDDSYGFYPGQVLIGPAKIFSSVQWLS
GVKPVLSKSKFRVVEEVQVVELKVTWITKSFCPGGTDVSPPPSVITQENLGRVKRLGCFDHAQRQLG
ERCLYVFPKVEPAKIAWECPEKNCAQGEKSMKVKRLLKQVVRIMSCSPDTQCSRDHSMEDPDKKGE
SKTKSEASASPEETPDGSASPVMQDEGAEEPHEAGEQLPPFLLKEGRDDLHSAEQDADDEAADTDD
TSSVTSSASSTSSQSGSGTSRKKSIPLSIKLNKRKHKRKKNKITRDFKPGDRVAVEVVTMTSADVMWQ
DGSVECNIRSNLDFPVHLDNNEFCPGDFVVDKRVQSCPDAVYGVVQSGDHIGRTCMVKWFKLRPSGDD
VELIGEEEDVSVYDIADHPDFRFRRTTDIRIGNTEDGAPHKEDPSVGQVARVDVSSKVEVWADNSKT
IILPQHLYNIESEIEESDYDSVEGSTSGASSDEWEDSDSWETDNLVEDEHPKIEEPIPPLEQVPAPE
DKGVWISSEEAATAAVQGAVAMAAPMAGLMEKAGKDGPPKSFRELKEAIKILES LKNMTVEQLLTGSPTSP
TVEPEKPTREKKFLDDIKLQENLKKTLDNVAIVEEEKMEAVPDVERKEDKPEGQSPVKAEWPSVLC
QQCGGKPGVTFTSAKGEVFSVLEFAPSNHSFKKIEFQPPEAKKFFSTVRKEMALLATSLPEGIMVKTFFED
RMDLFSALIKGPTRTPYEDGLYLFDIQLPNIYPAVPPHFCYLSQCSGRLNPNLYDNGKVCVSLGTWIGK
GTERWTSKSSLLQVLISIQGLILVNEPYNEAGFSDRGLQEGYENSRCYNEMALIRVVQSMTQLVRRPP
EVFEQEIRQHFSTGGWRLVNRIESWLETHALLEKAQALPNGVVKASSSPEPPAVAELSDSGQEPEDGGP
APGEASQGSDEGGAQGLASASRDHTDQTSETAPDASVPPSVKPKKRRRSYRSFLPEKSGYPDIFPLFP
LSKGFISIRGVLTQFRAALLEAGMPECTEDK

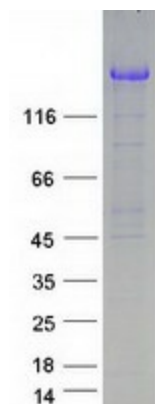
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	141.1 kDa



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Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_071349
Locus ID:	63893
UniProt ID:	Q9C0C9
RefSeq Size:	5073
Cytogenetics:	17q25.1
RefSeq ORF:	3876
Synonyms:	E2-230K
Summary:	<p>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]</p>
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]).