

CDC34 Human

Description: CDC34 Human Recombinant protein fused to a 20 amino acid N-terminal His-Tag produced in E.Coli is a single, non-glycosylated polypeptide chain containing 256 amino acids (1-236 a.a.) and having a molecular mass of 28.9 kDa. The CDC34 is purified by proprietary chromatographic techniques.

Catalog #: ENPS-362

For research use only.

Synonyms: UB2R1, CDC-34, Ubiquitin-conjugating enzyme E2 R1, Ubiquitin-protein ligase R1, Ubiquitin-conjugating enzyme E2-32 kDa complementing, E2-CDC34, CDC34, EC 6.3.2.19, UBC3, UBE2R1.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHH SSGLVPRGSH MARPLVPSSQ KALLLELKGL
QEEPVEGFRV TLVDEGDLYN WEVAIFGPPN TYYEGGYFKA RLKFPIDYPY SPAPFRFLTK
MWHPNIYETG DVCISILHPP VDDPQSGELP SERWNPTQNV RTILLSVISL LNEPNTFSPA
NVDASVMYRK WKESKGKDR EYTDIIRKQVL GTKVDAERDG VKVPTTLAEY CVKTKAPAPD
EGSDLFYDDY YE

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The CDC34 (1mg/ml) protein solution contains 20mM Tris-HCl pH-8, 10% glycerol, 50mM NaCl and 1mM DTT.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

CDC34 is important in the control of cell cycle and DNA replication. Cdc34 in association with different E3 complexes, including SCF, has been shown to target many different substrates for ubiquitination and degradation during cell division, signal transduction, and development. Cdc34 substrates that have been characterized include IB, B-Myb, Wee1, MyoD, ICERII, ATF5, p27Xic1, and p27Kip1. Additionally, substrates such as -catenin, p21Cip1, E2F, cyclin E, and cyclin D are putative substrates of Cdc34 by virtue of their SCF requirement for proteolysis. Cdc34 has been demonstrated to self-associate through a domain in the C-terminus, and is phosphorylated and ubiquitinated in vivo. This protein is useful for in vitro ubiquitination reactions.

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