

Human recombinant protein UBE2K
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Catalog # PBV10664r**Specification**

Human recombinant protein UBE2K - Product info

Primary Accession [P61086](#)
Calculated MW **22.406 kDa KDa**

Human recombinant protein UBE2K - Additional Info

Gene ID **3093**
Gene Symbol **UBE2K**

Other Names

HIP2, Huntingtin Interacting protein 2, HYPG, Ubiquitin-conjugating enzyme E2-25K kDa, Ubiquitin-protein ligase, Ubiquitin carrier protein, LIG, HIP-2, E2 (25K), DKFZp686J24237, EC 6.3.2.19.

Gene Source **Human**
Assay&Purity **RP-HPLC; ≥95%**
Assay2&Purity2 **N/A;**
Recombinant **Yes**
Format
Liquid

Storage

-80°C; 75 µL of a 40 µM solution (3 nmoles) in TBS.

Human recombinant protein UBE2K - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human recombinant protein UBE2K - Images**Human recombinant protein UBE2K - Background**

UBE2K, also known as Ubch1 or E2-25K, is an E2 (ubiquitin conjugating enzyme) that is involved in the conjugation of ubiquitin to target substrates along with E1 and E3 enzymes. Once an E1 is carrying an activated ubiquitin in a ubiquitin-E1 thiolester complex, this activated ubiquitin is transferred to the active site cysteine of the E2 to form a ubiquitin-E2 thiolester complex. With the

aid of an E3, the activated ubiquitin is then targeted to a specific substrate lysine. UBE2K is a biochemically important E2 due to its ability to form free K48-linked polyubiquitin chains in solution in the absence of an E3. This ability is attributed to Ubch1 possessing a C-terminal UBA domain, in addition to its E2 catalytic domain. UBE2K takes part in many cellular processes such as selective protein degradation, DNA repair, cell cycle control, and sporulation. In addition, UBE2K is involved in Alzheimer's disease, Huntington's disease and antigen processing through its interaction with amyloid- β , Huntington, and MHC-heavy chain proteins.

Human recombinant protein UBE2K - References

Kalchman M.A., et al. J. Biol. Chem. 271:19385-19394(1996).
Kikuchi J., et al. Arterioscler. Thromb. Vasc. Biol. 20:128-134(2000).
Furukawa Y., et al. Electrophoresis 21:338-346(2000).
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Ota T., et al. Nat. Genet. 36:40-45(2004).