

Human recombinant protein Ubiquitin Activating Enzyme E1
Human recombinant Ubiquitin Activating Enzyme E1
Catalog # PBV10661r**Specification**

Human recombinant protein Ubiquitin Activating Enzyme E1 - Product info

Primary Accession [P22314](#)
Calculated MW **118 kDa** KDa

Human recombinant protein Ubiquitin Activating Enzyme E1 - Additional Info

Gene ID **7317**
Gene Symbol **UBA1**
Other Names
UBE1, UBA1, POC20, A1S9T, A1ST, AMCX1, GXP1, SMAX2

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

Storage

-80°C; In 50 mM Tris (pH 8.0), 100 mM NaCl and 10% glycerol.

Human recombinant protein Ubiquitin Activating Enzyme E1 - 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 Ubiquitin Activating Enzyme E1 - Images**Human recombinant protein Ubiquitin Activating Enzyme E1 - Background**

UBE1, the ubiquitin activating enzyme, is the first enzyme utilized in the pathway to conjugate ubiquitin onto target substrates through an ubiquitin-protein isopeptide bond. The C-terminal glycine of an ubiquitin (G76) is initially adenylated in an ATP dependent manner activating it so it can be transferred to the active site cysteine of UBE1 forming an ubiquitin-UBE1 thiolester. With the help of the other enzymes in the ubiquitin conjugation pathway (E2/E3 enzymes) the ubiquitin is transferred to a specific lysine on a target substrate.

Human recombinant protein Ubiquitin Activating Enzyme E1 - References

- Ayusawa D.,et al.Cell Struct. Funct. 17:113-122(1992).
Handley P.M.,et al.Proc. Natl. Acad. Sci. U.S.A. 88:258-262(1991).
Handley P.M.,et al.Proc. Natl. Acad. Sci. U.S.A. 88:7456-7456(1991).
Ross M.T.,et al.Nature 434:325-337(2005).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.