



Recombinant Protein Technical Manual

Recombinant Human UBA5 Protein (His Tag)

RPES2231

Product Data:

Product SKU: RPES2231

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q9GZZ9

Protein Information:

Molecular Mass: 47.0 kDa

AP Molecular Mass: 14&40-60 kDa

Tag: N-6His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at<-20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl,50mM NaCl,1mM DTT, 10% glycerol,pH 8.0 .

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Ubiquitin-like modifier-activating enzyme 5; ThiFP1; UFM1-activating enzyme; Ubiquitin-activating enzyme E1 domain-containing protein 1; UBE1DC1; UBA5

Immunogen Information:

Sequence: Met 1-Met404

Background:

UBA5 is a member of the ubiquitin-activating E1 family and UBA5 subfamily. Ubiquitin and ubiquitin-like proteins are recognized as covalently conjugated to various cellular substrates by a three-step enzymatic pathway. The ubiquitin-activating enzyme (E1) has a vital role in the first step of ubiquitination pathway to activate ubiquitin or ubiquitin-like proteins. UBA5 activates ubiquitin-fold modifier 1, a ubiquitin-like post-translational modifier protein, via the formation of a high-energy thioester bond. UBA5 is located primarily in cytoplasm, while it generally localizes to the nucleus in presence of SUMO2.