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### Recombinant human SAE2/UBA2 protein

Catalog Number: ATGP3363

#### PRODUCT INFORMATION

#### **Expression system**

Baculovirus

#### **Domain**

1-640aa

#### **UniProt No.**

O9UBT2

#### **NCBI Accession No.**

NP 005490.1

#### **Alternative Names**

Ubiquitin like modifier activating enzyme 2, SUMO1 activating enzyme subunit 2, SUMO-activating enzyme subunit 2, Anthracycline-associated resistance ARX, Ubiquitin-like 1-activating enzyme E1B, Ubiquitin-like modifier-activating enzyme 2, Ubiquitin-activating enzyme E1 homolog, UBLE1B

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

72.3 kDa (649aa)

#### Concentration

0.5mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 85% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

His-Tag

### **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

UBA2, also known as SUMO-activating enzyme subunit 2, is a family of small and related proteins that can be enzymatically attached to a target protein by a post-translational modification process termed sumoylation. It is



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conjugated to a variety of molecules in the presence of the SAE1/UBA2 SUMO-activating (E1) enzyme and the UBE2I/Ubc9 SUMO-conjugating (E2) enzyme. It may represent an important mechanism to protect neurons during episodes of cerebral ischemia. Recombinant human UBA2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

#### **Amino acid Sequence**

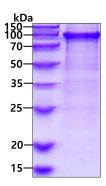
<ADL>MALSRGL PRELAEAVAG GRVLVVGAGG IGCELLKNLV LTGFSHIDLI DLDTIDVSNL NRQFLFQKKH VGRSKAQVAK ESVLQFYPKA NIVAYHDSIM NPDYNVEFFR QFILVMNALD NRAARNHVNR MCLAADVPLI ESGTAGYLGQ VTTIKKGVTE CYECHPKPTQ RTFPGCTIRN TPSEPIHCIV WAKYLFNQLF GEEDADQEVS PDRADPEAAW EPTEAEARAR ASNEDGDIKR ISTKEWAKST GYDPVKLFTK LFKDDIRYLL TMDKLWRKRK PPVPLDWAEV QSQGEETNAS DQQNEPQLGL KDQQVLDVKS YARLFSKSIE TLRVHLAEKG DGAELIWDKD DPSAMDFVTS AANLRMHIFS MNMKSRFDIK SMAGNIIPAI ATTNAVIAGL IVLEGLKILS GKIDQCRTIF LNKQPNPRKK LLVPCALDPP NPNCYVCASK PEVTVRLNVH KVTVLTLQDK IVKEKFAMVA PDVQIEDGKG TILISSEEGE TEANNHKKLS EFGIRNGSRL QADDFLQDYT LLINILHSED LGKDVEFEVV GDAPEKVGPK QAEDAAKSIT NGSDDGAQPS TSTAQEQDDV LIVDSDEEDS SNNADVSEEE RSRKRKLDEK ENLSAKRSRI EQKEELDDVI ALD

#### **General References**

Gong L., et al. (1999) FEBS Lett. 448:185-189. Tatham MH., et al. (2001) | Biol Chem. 276:35368-35374.

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

