



UBA2 peptide (DAG-P1958)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Posttranslational modification of proteins by the addition of the small protein SUMO (see SUMO1; MIM 601912), or sumoylation, regulates protein structure and intracellular localization. SAE1 (MIM 613294) and UBA2 form a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins (Okuma et al., 1999 [PubMed 9920803]).[supplied by OMIM, Mar 2010]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the ubiquitin-activating E1 family.
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	UBA2 ubiquitin-like modifier activating enzyme 2 [Homo sapiens (human)]
Official Symbol	UBA2
Synonyms	UBA2; ubiquitin-like modifier activating enzyme 2; ARX; SAE2; HRIHFB2115; SUMO-activating enzyme subunit 2; SUMO1 activating enzyme subunit 2; SUMO-1 activating enzyme subunit 2; ubiquitin-like 1-activating enzyme E1B; anthracycline-associated resistance ARX; ubiquitin-like modifier-activating enzyme 2; UBA2, ubiquitin-activating enzyme E1 homolog;
Entrez Gene ID	10054
mRNA Refseq	NM_005499.2

Protein Refseq	NP_005490.1
UniProt ID	Q9UBT2
Chromosome Location	19q12
Pathway	Conjugation of SUMO to E1 (UBA2:SAE1), organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; Post-translational protein modification, organism-specific biosystem; Processing and Activation of SUMO, organism-specific biosystem; SUMOylation, organism-specific biosystem; Transfer of SUMO from E1 to E2 (UBE2I, UBC9), organism-specific biosystem; Ubiquitin mediated proteolysis, organism-specific biosystem; Ubiquitin mediated proteolysis, conserved biosystem;
Function	ATP binding; SUMO activating enzyme activity; SUMO activating enzyme activity; enzyme activator activity; ligase activity; metal ion binding; protein binding; protein heterodimerization activity; transcription factor binding;