Recombinant Full Length Human PSMD14 / PAD1, GST-tagged

Cat. No. PSMD14-6978H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PAD1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-310 a.a.
Description	PAD1 is a member of the peptidyl arginine deiminase family of enzymes, which catalyze the post-translational deimination of proteins by converting arginine residues into citrullines in the presence of calcium ions. PAD1 is a component of the 26S proteasome, a multiprotein complex that degrades proteins targeted for destruction by the ubiquitin pathway. The overexpression of PAD1 induced a distinctive pattern of multidrug resistance in mammalian cells and moderate resistance to ultraviolet light. PAD1 is also responsible for substrate deubiquitination during proteasomal degradation.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	61 KDa
Purity	>95%

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 μg/μ

GENE INFORMATION

Gene Name	PSMD14 proteasome (prosome, macropain) 26S subunit, non-ATPase, 14 [Homo sapiens]
Official Symbol	PSMD14
Synonyms	PSMD14; proteasome (prosome, macropain) 26S subunit, non-ATPase, 14; 26S proteasome non-ATPase regulatory subunit 14; pad1; POH1; Rpn11; 26S proteasome regulatory subunit rpn11; 26S proteasome-associated PAD1 homolog 1; PAD1; RPN11;
Gene ID	10213
mRNA Refseq	NM_005805
Protein Refseq	NP_005796
MIM	607173
UniProt ID	O00487
Chromosome Location	2q14.3

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Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; Activation of NF-kappaB in B Cells, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem;
Function	endopeptidase activator activity; metal ion binding; metallopeptidase activity; peptidase activity; proteasome binding; ubiquitin thiolesterase activity;

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