

Recombinant Mouse PAD2, GST-tagged

Cat. No. PADI2-6979M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length mouse PAD2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Mouse
Source	Sf9 Cells
ProteinLength	Full length
Description	<p>PAD2 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. PAD2 has peptidylarginine deiminase activity against synthetic substrates. PAD2 is mainly expressed in the central nervous system, skeletal muscle, spinal cord, cerebrum, cerebellum, and submaxillary gland. PAD2 play a role in the onset and progression of neurodegenerative human disorders, including Alzheimer disease and multiple sclerosis, and it has also been implicated in glaucoma pathogenesis.</p>
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	~99 kDa
Purity	>95%

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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 $\mu\text{g}/\mu$
GENE INFORMATION	
Gene Name	Padi2 peptidyl arginine deiminase, type II [<i>Mus musculus</i>]
Official Symbol	PADI2
Synonyms	PADI2; peptidyl arginine deiminase, type II; protein-arginine deiminase type-2; PAD type II; peptidylarginine deiminase II; protein-arginine deiminase type II; Pdi; Pdi2; mKIAA0994;
Gene ID	18600
mRNA Refseq	NM_008812
Protein Refseq	NP_032838
Pathway	protein citrullination, organism-specific biosystem;
Function	calcium ion binding; hydrolase activity; protein-arginine deiminase activity;

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