

PDF Polyclonal Antibody

Catalog No: #27447



Package Size: #27447-1 50ul #27447-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

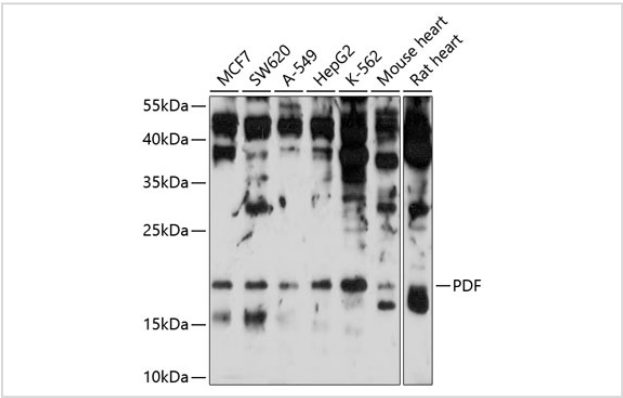
Description

Product Name	PDF Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB
Species Reactivity	Human,Mouse,Rat
Immunogen Description	Recombinant fusion protein of human PDF (NP_071736.1).
Other Names	PDF; peptide deformylase, mitochondrial
Accession No.	Swiss-Prot#:Q9HBH1NCBI Gene ID:64146
Uniprot	Q9HBH1
GeneID	64146;
Calculated MW	20kDa
Formulation	Avoid freeze / thaw cycles. Buffer: PBS with 50% glycerol, pH7.4.
Storage	Store at -20°C

Application Details

WB 1:500 - 1:2000

Images



Western blot analysis of extracts of various cell lines, using PDF at 1:1000 dilution.

Background

Protein synthesis proceeds after formylation of methionine by methionyl-tRNA formyl transferase (FMT) and transfer of the charged initiator f-met tRNA to the ribosome. In eubacteria and eukaryotic organelles the product of this gene, peptide deformylase (PDF), removes the formyl group from the initiating methionine of nascent peptides. In eubacteria, deformylation of nascent peptides is required for subsequent cleavage of initiating methionines by methionine aminopeptidase. The discovery that a natural inhibitor of PDF, actinonin, acts as an antimicrobial agent in some bacteria

has spurred intensive research into the design of bacterial-specific PDF inhibitors. In human cells, only mitochondrial proteins have N-formylation of initiating methionines. Protein inhibitors of PDF or siRNAs of PDF block the growth of cancer cell lines but have no effect on normal cell growth. In humans, PDF function may therefore be restricted to rapidly growing cells.

Note: This product is for in vitro research use only