



# Anti-AIFM1 (aa 420-529) polyclonal antibody (DPAB-DC3734)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	This gene encodes a flavoprotein essential for nuclear disassembly in apoptotic cells, and it is found in the mitochondrial intermembrane space in healthy cells. Induction of apoptosis results in the translocation of this protein to the nucleus where it affects chromosome condensation and fragmentation. In addition, this gene product induces mitochondria to release the apoptogenic proteins cytochrome c and caspase-9. Mutations in this gene cause combined oxidative phosphorylation deficiency 6, which results in a severe mitochondrial encephalomyopathy. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 10.
<b>Immunogen</b>	PDCD8 (NP_004199, 420 a.a. ~ 529 a.a) partial recombinant protein with GST tag. The sequence is GFRVNAELQARSNIWVAGDAACFYDIKLGRRRVEHHDHAVVSGRLAGENMTGAAKPYWHQ SMFWSDLGPDVGYEAGLVDSSLPTVGVFATAQDNPKSATEQSGTGIR
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

# GENE INFORMATION

Gene Name	<a href="#">AIFM1 apoptosis-inducing factor, mitochondrion-associated, 1 [ Homo sapiens (human) ]</a>
Official Symbol	AIFM1
Synonyms	AIFM1; apoptosis-inducing factor, mitochondrion-associated, 1; AIF; CMT2D; CMTX4; COWCK; NADMR; NAMSD; PDCD8; COXPD6; apoptosis-inducing factor 1, mitochondrial; striatal apoptosis-inducing factor; programmed cell death 8 (apoptosis-inducing factor); Neuropathy, axonal motor-sensory, with deafness and mental retardation; neuropathy, axonal, motor-sensory with deafness and mental retardation (Cowchock syndrome);
Entrez Gene ID	<a href="#">9131</a>
Protein Refseq	<a href="#">NP_001124318</a>
UniProt ID	<a href="#">O95831</a>
Chromosome Location	Xq26.1
Pathway	Apoptosis; Ceramide signaling pathway;
Function	DNA binding; NAD(P)H oxidase activity; electron carrier activity; flavin adenine dinucleotide binding