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530-758-4400

PRODUCT DATASHEET

Anti-AIFM1 (Ser-116), Phosphospecific Antibody

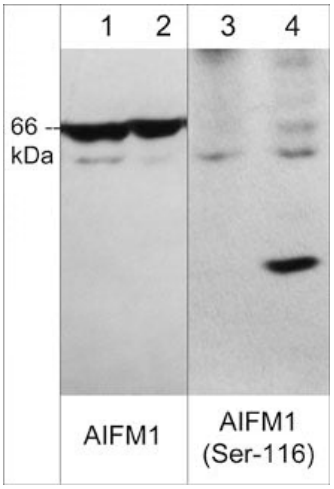
phosphosolutions ANTIBODIES THAT WORK

Product Details

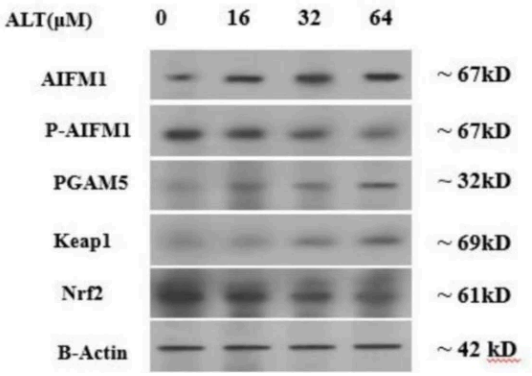
Available Variants	100 µL (SKU:AP5501)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	AIFM1
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, WB
Dilution Ranges	WB: 1:1000
Species Reactivity	Human
Immunogen	Phospho-AIFM1 (Ser-116) synthetic peptide (coupled to carrier) corresponding to amino acids surrounding Ser-116 in human AIFM1. This site is conserved in rat and mouse AIFM1, but the amino acids surrounding the site are not well conserved. The site is not found in AIFM2 and AIFM3.
Specificity	The antibody was cross adsorbed to unphosphorylated AIFM1 (Ser-116) peptide before affinity purification using phospho-AIFM1 (Ser-116) peptide. This antibody antibody detects a triplet at 66, 62, and 57 kDa* protein on SDS-PAGE immunoblots of human Jurkat cells treated with calyculin A. This reactivity is not observed after lambda phosphatase treatment to dephosphorylated AIFM1.
Molecular Weight	57/62/66
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	O95831 UniProt Summary: Functions both as NADH oxidoreductase and as regulator of apoptosis. In response to apoptotic stimuli, it is released from the mitochondrion intermembrane space into the cytosol and to the nucleus, where it functions as a proapoptotic factor in a caspase-independent pathway. Release into the cytoplasm is mediated upon binding to poly-ADP-ribose chains. The soluble form (AIFsol) found in the nucleus induces 'parthanatos' i.e. caspase-independent fragmentation of chromosomal DNA. Binds to DNA in a sequence-independent manner. Interacts with EIF3G, and thereby inhibits the EIF3 machinery and protein synthesis, and activates caspase-7 to amplify apoptosis. Plays a critical role in caspase-independent, pyknotic cell death in hydrogen peroxide-exposed cells. In contrast, participates in normal mitochondrial metabolism. Plays an important role in the regulation of respiratory chain biogenesis by interacting with CHCHD4 and controlling CHCHD4 mitochondrial import.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Ser-116
NCBI Gene ID	9131

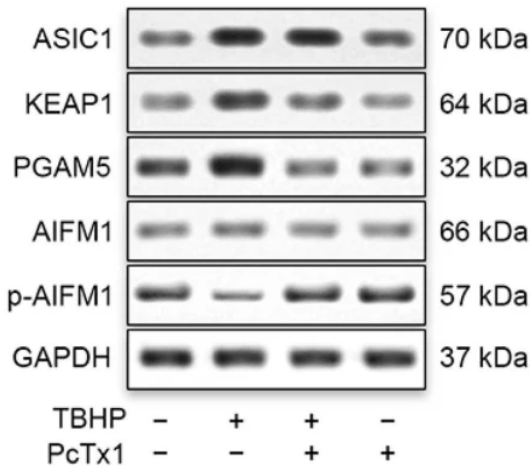
Product Images



Western blot image of human jurkat cells untreated (lanes 1 & 3) or treated with calyculin A (100 nM, 30 min.) (lanes 2 and 4). The blot was probed with rabbit polyclonals anti-AIFM1 (C-terminal region) at 1:500 (lanes 1 & 2) and anti-AIFM1 (Ser-116) phospho-specific antibody at 1:1000 (lanes 3 & 4).



Western blotting shows KEAP1-PGAM5-AIFM1 pathway protein level regulation by ALT. SKOV-3 cells were treated with different concentrations (0, 16, 32 and 64 μM) of ALT for 24 h. Specifically AIFM1, P-AIFM1(Ser-116) (Cat. AP5501), KEAP1, Nrf2, and PGAM5 levels were detected. B-Actin used as a control. Image from publication CC-BY-4.0. PMID: 37712005



Western blot analysis of protein expression of ASIC1, KEAP1, PGAM5, and AIFM1 phosphorylated at Ser116 (Cat. AP5501, 1:1000) in NPCs after treatment for 30 min with 20 nM Psalmotoxin 1 (PcTx1) followed by 24 h of treatment with H2O (control) or 100 μM TBHP. Image from publication CC-BY-4.0. PMID: 38540291



Created on 31. October 2026 | All information without guarantee