abcam

ab119059

Anti-FADD antibody [OTI1C11]

KO Validated

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.3 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Full Length Protein corresponding to Human FADD. Database link Q13158
Clone number	OTI1C11
Purification technique	Affinity purification
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from cell culture supernatant by affinity chromatography

Reactivity data

WB

Tested

Species	Human
Dilution info	1/2000

Notes	-

Not recommended

Species	Transfected cell line
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Transfected cell line
Dilution info	1/100
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information FADD

Function	Apoptotic adapter molecule that recruits caspases CASP8 or CASP10 to the activated FAS/CD95 or TNFRSF1A/TNFR-1 receptors (PubMed:16762833, PubMed:19118384, PubMed:20935634, PubMed:23955153, PubMed:24025841, PubMed:7538907, PubMed:9184224). The resulting aggregate called the death-inducing signaling complex (DISC) performs CASP8 proteolytic activation (PubMed:16762833, PubMed:19118384, PubMed:20935634, PubMed:7538907, PubMed:9184224). Active CASP8 initiates the subsequent cascade of caspases mediating apoptosis (PubMed:16762833). Involved in interferon-mediated antiviral immune response, playing a role in the positive regulation of interferon signaling (PubMed:21109225, PubMed:24204270).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

The clone number has been updated from 1C11 to OTI1C11, both clone numbers name the same clone.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	FADD also known as Fas-Associated protein with Death Domain is an adaptor molecule with a molecular weight of approximately 23 kDa. It plays a critical role in the transmission of apoptotic signals. FADD is widely expressed in various tissues particularly in the thymus and immune system cells. This protein serves as a bridge linking death receptors like Fas and TNFR-1 with caspase activation pathways.
Biological function summary	FADD is essential in apoptosis where it assists in the assembly of the death-inducing signaling complex (DISC). Upon receptor activation FADD recruits procaspase-8 or -10 to DISC promoting their autocatalytic cleavage and activation. This leads to the subsequent cascade that results in cell apoptosis. FADD also plays a role in necroptosis and is involved in the immune response regulation highlighting its multifunctional nature in cellular processes.
Pathways	FADD integrates into the apoptotic and necroptotic pathways. In the apoptotic pathway it interacts closely with Fas a death receptor to promote caspase-8 activation. Additionally in the necroptotic pathway FADD associates with RIP1 and RIP3 contributing to an alternative form of programmed cell death. These interactions underline its significant role in controlling cell fate decisions.
Associated diseases and disorders	Aberrations in FADD function are associated with cancer and autoimmune diseases. Overexpression or mutation of FADD can lead to unchecked cell proliferation or defective apoptosis contributing to cancer development. In autoimmune disorders improper regulation of FADD may disrupt immune tolerance and lead to systemic inflammation. Key proteins involved in these disease processes include caspase-8 and RIPK1 which interact with FADD in regulating cell death and survival mechanisms.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

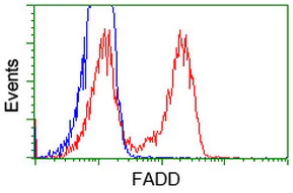
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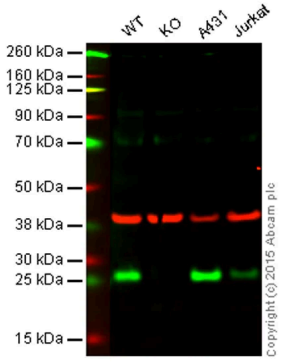
5 product images



Flow Cytometry (Intracellular) - Anti-FADD antibody [OTI1C11] (ab119059)

FADD Flow Cytometry (Intracellular) staining using mouse Anti-FADD antibody

HEK293T cells transfected with either a FADD overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained using ab119059 at 1/100 dilution and then analyzed by Flow Cytometry (Intracellular).



Western blot - Anti-FADD antibody [OTI1C11] (ab119059)

FADD Western blot staining using mouse Anti-FADD antibody

Lanes 1 - 4: Merged signal (red and green). Green - ab119059 observed at 25 kDa. Red - loading control, ab181602, observed at 37 kDa.
ab119059 was shown to specifically react with FADD when FADD knockout samples were used. Wild-type and FADD knockout samples were subjected to SDS-PAGE. ab119059 and ab181602 (loading control to GAPDH) were both diluted 1/2000 and incubated overnight at 4°C. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed ab216772 and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed ab216777 secondary antibodies at 1/10000 dilution for 1 h at room temperature before imaging.

All lanes:
Western blot - Anti-FADD antibody [OTI1C11] (ab119059) at 1/2000 dilution

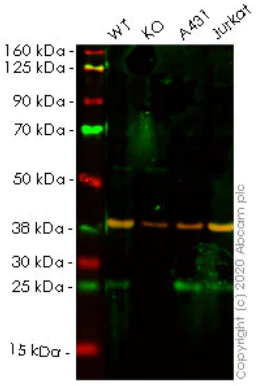
Lane 1:
Wild-type HAP1 cell lysate at 20 µg

Lane 2:
FADD knockout HAP1 cell lysate at 20 µg

Lane 3:
A431 cell lysate at 20 µg

Lane 4:
Jurkat cell lysate at 20 µg

Predicted band size: 23 kDa



Western blot - Anti-FADD antibody [OTI1C11] (ab119059)

FADD Western blot staining using mouse Anti-FADD antibody

Lanes 1-4: Merged signal (red and green). Green - ab119059 observed at 25 kDa. Red - loading control ab181602 observed at 37 kDa.
ab119059 Anti-FADD antibody [OTI1C11] was shown to specifically react with FADD in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab261817 (knockout cell lysate ab257261) was used. Wild-type and FADD knockout samples were subjected to SDS-PAGE. ab119059 and Anti-GAPDH antibody[EPR16891] - Loading Control (ab181602) were incubated overnight at 4°C at 1 in 2000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (ab216772) and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (ab216777) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-FADD antibody [OTI1C11] (ab119059) at 1/2000 dilution

Lane 1:
Wild-type HeLa cell lysate at 20 µg

Lane 2:
FADD knockout HeLa cell lysate at 20 µg

Lane 2:
Western blot - Human FADD knockout HeLa cell line (ab261817)

Lane 3:
A431 cell lysate at 20 µg

Lane 4:
Jurkat cell lysate at 20 µg

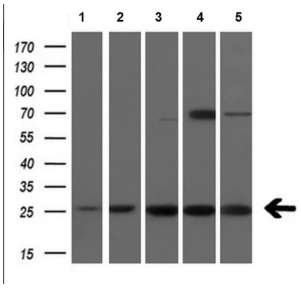
Secondary

All lanes:
Western blot - Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (ab216772) at 1/20000 dilution

Performed under reducing conditions.

Predicted band size: 23 kDa

Observed band size: 25 kDa



Western blot - Anti-FADD antibody [OTI1C11] (ab119059)

All lanes:
Western blot - Anti-FADD antibody [OTI1C11] (ab119059) at 1/200 dilution

Lane 1:
HepG2 cell lysate at 10 µg

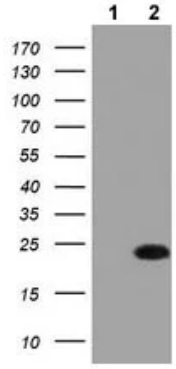
Lane 2:
HeLa cell lysate at 10 µg

Lane 3:
A549 cell lysate at 10 µg

Lane 4:
Jurkat cell lysate at 10 µg

Lane 5:
MCF7 cell lysate at 10 µg

Predicted band size: 23 kDa



Western blot - Anti-FADD antibody [OTI1C11] (ab119059)

All lanes:
Western blot - Anti-FADD antibody [OTI1C11] (ab119059) at 1/2000 dilution

Lane 1:
HEK293T cell lysate transfected with pCMV6-ENTRY control at 5 µg

Lane 2:
HEK293T cell lysate transfected with pCMV6-ENTRY FADD cDNA at 5 µg

Predicted band size: 23 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.