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[Marker Primary Antibody]

Rabbit Anti-phospho-FADD (Ser194)/HRP Conjugated antibody

Catalog Number: SL5699R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-phospho-FADD (Ser194)/HRP
Immunogen:	KLH conjugated Synthesised phosphopeptide derived from human FADD around the phosphorylation site of Ser194
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human
Background:	background: FADD (Fas Associated Death Domain) is an apoptosis adapter molecule enabling transduction of the apoptosis signal initiated via the FasL/Fas receptor interaction. The protein contains a C terminal death domain that interacts with the Fas receptor death domain. The N terminus contains a death effectors domain (DED) which recruits caspase to the death inducing signaling complex (DISC) and initiates the apoptotic caspase cascade. Recruitment of Caspase 8 to the Fas receptor results in oligomerization of the Caspase 8 protein, which in turn drives its autoactivation through self-cleavage. Activated Caspase 8 then activates other downstream caspases including Caspase 9, thereby commiting the cell to undergo apoptosis. FADD is implicated in non-apoptotic cellular pathways such as the regulation of cell cycle machinery in T lymphocytes. This is connected to the phosphorylation state of FADD and to the

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	FasL/TRAIL induced transcriptional activation of cfos protooncogene. FADD also interacts with the hepatitis C virus core protein in the HEK 293 cell line. **Function:** Apoptotic adaptor molecule that recruits caspase-8 or caspase-10 to the activated Fas (CD95) or TNFR-1 receptors. The resulting aggregate called the death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation. Active caspase-8 initiates the subsequent cascade of caspases mediating apoptosis. Involved in interferon-mediated antiviral immune response, playing a role in the positive regulation of interferon signaling. **Subunit:** Can self-associate. Interacts with CFLAR, PEA15 and MBD4. When phosphorylated, part of a complex containing HIPK3 and FAS. May interact with MAVS/IPS1. Interacts with MOCV v-CFLAR protein and LRDD. Interacts (via death domain) with FAS (via death domain). Interacts with CASP8. **Tissue Specificity:** Expressed in a wide variety of tissues, except for peripheral blood mononuclear leukocytes. DISEASE: Defects in FADD are the cause of infections recurrent associated with encephalopathy hepatic dysfunction and cardiovascular malformations (IEHDCM) [MIM:613759]. A condition with biological features of autoimmune lymphoproliferative syndrome such as high-circulating CD4(-)CD8(-)TCR-alpha-beta(+) T-cell counts, and elevated IL10 and FASL levels. Affected individuals suffer from recurrent, stereotypical episodes of fever, encephalopathy, and mild liver dysfunction sometimes accompanied by generalized seizures. The episodes can be triggered by varicella zoster virus (VZV), measles mumps rubella (MMR) attenuated vaccine, parainfluenza virus, and Epstein-Barr virus (EBV). **Similarity:** Contains 1 death domain. Contains 1 DED (death effector) domain. **Database links:** **Entrez Gene:** 8772 Human **Entrez Gene:** 14082 Mouse Omim: 602457 Human **SwissProt:** Q13158 Human **SwissProt:** Q61160 Mouse **Unigene:** 86131 Human **Unigene:** 5126 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.