Revision 1

Store at -20C

#2781

Phospho-FADD (Ser194) Antibody

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	28	Rabbit	#Q13158	8772

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Phospho-FADD (Ser194) Antibody detects endogenous levels of human FADD protein only when phosphorylated at serine 194.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser194 of human FADD. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Fas-associated death domain (FADD or Mort 1) functions as an important adaptor in coupling death signaling from membrane receptors, such as the Fas ligand and TNF family (DR3, DR4 and DR5), to caspase-8 (1,2). FADD has a carboxy-terminal death domain, which interacts with the cytoplasmic tail of the membrane receptor, and an amino-terminal death effector domain, which interacts with caspase-8. Clustering of the receptors upon stimulation brings about FADD and caspase-8 oligomerization, activating the caspase signaling pathway. Human FADD is phosphorylated mainly at Ser194, while mouse FADD is phosphorylated at Ser191. In both cases, the phosphorylation is cell cycle-dependent (3) and may be related to its regulatory role in embryonic development and cell cycle progression (4,5).

Background References

1. Ashkenazi, A. and Dixit, V.M. (1998) *Science* 281, 1305-1308.
2. Kuang, A. A. et al. (2000) *J. Biol. Chem.* 275, 25065-25068.
3. Scaffidi, C. et al. (2000) *J. Immunol.* 164, 1236-1242.
4. Newton, K. et al. (2000) *EMBO J.* 19, 931-941.
5. Zhang, J. et al. (2001) *J. Biol. Chem.* 276, 29815-29818.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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