Apoptosis Antibody Sampler Kit

K2001



Contains Product	Specification	Applications	Species reactivity	MW(kDa)
Casnase 3[ET1602-39]	2011	WRIF-CellIF-Tissue IHC-P IP FC	н	32 k Da
A cive Caspase-3[ET1602-47]	20µ1	W BJF-CellIF-Tissue.IHC-P	Н	17 kDa
PARP[ET1608-56]	2 0 µ1	W B,IF-Cell,IF-Tissue,IHC-P,FC	H,M	113 kDa
Cleaved PARP[ET1608-10]	2 0 µ1	W B,IF-Cell,IP,FC	Н	89 k Da
Casp ase-9 [ET1610-95]	2 0 µ1	WB,IP	H,M	46/30/17/37 k Da
A ctiv e+Pro Caspase-9 [R1308-12]	2 0 µ1	W B,IH C-P	Н	46 k Da
pro Caspase-7[ET1612-28]	20µ1	W B,IF-Cell,IF-Tissue,IH C-P	Н	34 k Da
Cleaved - Caspase - / p 20[ER60002] HRP-A haca an ti-Rah bit I e G. Fc. Recombinant V H H [H A 1031]	20µ1	IP FLISA IHC-P WR	H,M,K Rab	20 k Da
Description:	The Apoptosis Antibody Sampler Kit designed to provide you with a variety of trial-size			
	antibodies in a convenient and cost-effective format. The kit can be used to detect the full length			
	and cleaved products o	of Caspase-3, Caspas	se-7, Caspase-9, and PARI	P. And also includes
	secondary reagent for det	ection of these antibo	dies.	
Storage Buffer:	1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.			
Storage Instruction:	Store at +4°C after thawin	g. Aliquot store at -20	°C. Avoid repeated freeze / tl	haw cycles.
Background	Apoptosis is a regulated physiological process leading to cell death. Caspases, a family of cysteine acid proteases, are central regulators of apoptosis. Initiator caspases are closely coupled to proapoptotic signals.			
	Once activated, these caspases cleave and activate downstream effector caspases, which in turn cleave cytoskeletal and nuclear proteins like PARP, α -fodrin, DFF, and lamin A and induce apoptosis. Cytochrome c released from mitochondria is coupled to the activation of caspase-9, a key initiator caspase. Proapoptotic stimuli include FasL, TNF- α , DNA damage and ER stress. Fas and TNFR activate caspase-8 and -10, DNA damage leads to the activation of caspase-9 and ER stress leads to the calcium-mediated activation of caspase-12 (3). The inhibitor of apoptosis protein (IAP) family includes XIAP and survivin and functions by binding and inhibiting several caspases. Smac/Diablo, a mitochondrial protein, is released into the cytosol upon mitochondrial stress and competes with caspases for binding of IAPs. The interaction of Smac/Diablo with IAPs relieves the inhibitory effects of IAPs on caspases.			

Database links:

UniProt ID: P42574, P42574, P09874, P11103, P27008, P09874, P55211, Q8C3Q9, P55211, P55210, P55210

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of Caspase-3 on different lysates with Rabbit anti-Caspase-3 antibody (ET1602-39) at 1/2,000 dilution and competitor's antibody at 1/1,000 dilution.

Lane 1: HeLa cell lysate

Lane 2: HeLa treated with 1µM staurosporine for 3 hours cell lysate Lane 3: Jurkat cell lysate Lane 4: Jurkat treated with 25µM Etoposide for 5 hours cell lysate Lane 5: MCF7 cell lysate (negative) Lane 6: HEK-293 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 32 kDa Observed band size: 32 kDa

Exposure time: 3 minutes 20 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1602-39) at 1/2,000 dilution and competitor's antibody at 1/1,000 dilution were used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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Fig2: Western blot analysis of PARP on different lysates with Rabbit anti-PARP antibody (ET1608-56) at 1/2,000 dilution and competitor's antibody at 1/1,000 dilution.

Lane 1: HeLa cell lysate (15 µg/Lane) Lane 2: Jurkat cell lysate (15 µg/Lane) Lane 3: NIH/3T3 cell lysate (15 µg/Lane) Lane 4: C2C12 cell lysate (15 µg/Lane) Lane 5: C6 cell lysate (15 µg/Lane) Lane 6: PC-12 cell lysate (15 µg/Lane)

Predicted band size: 113 kDa Observed band size: 113 kDa

Exposure time: 6 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1608-56) at 1/2,000 dilution and competitor's antibody at 1/1,000 dilution were used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:50,000 dilution was used for 1 hour at room temperature.

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Fig3: Western blot analysis of Cleaved PARP on different lysates with Rabbit anti-Cleaved PARP antibody (ET1608-10) at 1/2,000 dilution.

Lane 1: HeLa whole cell lysate Lane 2: HeLa treated with $1\mu M$ staurosporine for 3 hours whole cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 89 kDa Observed band size: 89 kDa

Exposure time: 1 minute 9 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1608-10) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG- HRP Secondary Antibody (HA1001) at 1:50,000 dilution was used for 1 hour at room temperature.

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Fig4: Western blot analysis of Caspase-9 on different lysates with Rabbit anti-Caspase-9 antibody (ET1610-95) at 1/1,000 dilution.

Lane 1: Hela-si NT cell lysate Lane 2: Hela-si Caspase-9 cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 46 kDa Observed band size: 46 kDa

Exposure time: 2 minutes;

4-20% SDS-PAGE gel.

ET1610-95 was shown to specifically react with Caspase-9 in Hela-si NT cells. Weakened band was observed when Hela-si Caspase-9 sample was tested. Hela-si NT and Hela-si Caspase-9 samples were subjected to SDS-PAGE. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM in TBST for 1 hour at room temperature. The primary antibody (ET1610-95, 1/1,000) and Loading control antibody (Rabbit anti-GAPDH, ET1601-4, 1/10,000) were used in 5% BSA at room temperature for 2 hours. Goat Anti-rabbit IgG-HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

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Fig5: Western blot analysis of Active+Pro Caspase-9 on different lysates with Rabbit anti-Active+Pro Caspase-9 antibody (R1308-12) at 1/1,000 dilution.

Lane 1: Hela-si NT cell lysate Lane 2: Hela-si Caspase-9 cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 46 kDa Observed band size: 46 kDa

Exposure time: 5 minutes;

4-20% SDS-PAGE gel.

R1308-12 was shown to specifically react with Active+Pro Caspase-9 in Hela-si NT cells. Weakened band was observed when Hela-si Active+Pro Caspase-9 sample was tested. Hela-si NT and Hela-si Active+Pro Caspase-9 samples were subjected to SDS-PAGE. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM in TBST for 1 hour at room temperature. The primary antibody (R1308-12, 1/1,000) and Loading control antibody (Rabbit anti-GAPDH, ET1601-4, 1/10,000) were used in 5% BSA at room temperature for 2 hours. Goat Anti-rabbit IgG-HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

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- 2. Budihardjo, I. et al. (1999) Annu. Rev. Cell Dev. Biol. 15, 269-290.
- 3. Nakagawa, T. et al. (2000) Nature 403, 98-103.
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- 6. Du, C. et al. (2000) Cell 102, 33-42.

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