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10-6584: Mouse Monoclonal Antibody to CASP8 (C-term)(Clone: 550CT8.5.2)(Discontinued)

Clonality :	monoclonal
Clone Name :	550CT8.5.2
Application :	FACS,WB
Reactivity :	Human
Gene :	CASP8
Gene ID :	841
Uniprot ID :	Q14790
Format :	Purified
Alternative Name :	Caspase-8, CASP-8, 3.4.22.61, Apoptotic cysteine protease, Apoptotic protease Mch-5, CAP4, FADD-homologous ICE/ced-3-like protease, FADD-like ICE, FLICE, ICE-like apoptotic protease 5, MORT1-associated ced-3 homolog, MACH, Caspase-8 subunit p18, Caspase-8 subunit p10, CASP8, MCH5
Isotype :	Mouse IgG1
Immunogen Information :	Synthesized Peptide

Description

Most upstream protease of the activation cascade of caspases responsible for the TNFRSF6/FAS mediated and TNFRSF1A induced cell death. Binding to the adapter molecule FADD recruits it to either receptor. The resulting aggregate called death-inducing signaling complex (DISC) performs CASP8 proteolytic activation. The active dimeric enzyme is then liberated from the DISC and free to activate downstream apoptotic proteases. Proteolytic fragments of the N-terminal propeptide (termed CAP3, CAP5 and CAP6) are likely retained in the DISC. Cleaves and activates CASP3, CASP4, CASP6, CASP7, CASP9 and CASP10. May participate in the GZMB apoptotic pathways. Cleaves ADPRT. Hydrolyzes the small-molecule substrate, Ac-Asp-Glu-Val-Asp-|-AMC. Likely target for the cowpox virus CRMA death inhibitory protein. Isoform 5, isoform 6, isoform 7 and isoform 8 lack the catalytic site and may interfere with the pro-apoptotic activity of the complex.

Product Info

Amount :	50 µl / 200 µl
Purification :	Protein G Chromatography
Content :	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage condition :	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term store at -20°C in small aliquots to prevent freeze-thaw cycles.

Application Note

FACS~1:25|| WB~1:2000

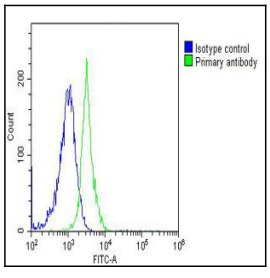

Figure 1: Overlay histogram showing Jurkat cells stained with CASP8 Antibody (10-6584) (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Mouse IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was mouse IgG1 (1Î¼g/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

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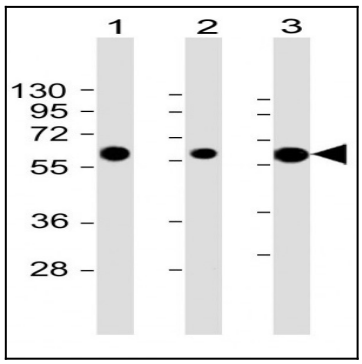

Figure 2: All lanes : Anti-CASP8 Antibody (10-6584) at 1:2000 dilution with Lane 1: HepG2 whole cell lysate, Lane 2: Jurkat whole cell lysate and Lane 3: HL-60 whole cell lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 55 kDa.