

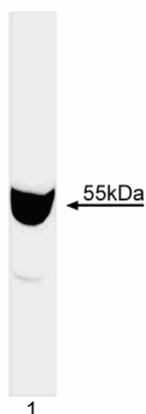
Technical Data Sheet

Purified Mouse Anti-Human Caspase-8**Product Information**

Material Number:	556466
Alternate Name:	FLICE, MACH-1, Mch5
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	B9-2
Immunogen:	Recombinant Human Caspase-8 aa. 335-469
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Human
Target MW:	55 kDa
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

Caspase-8 (FLICE/MACH-1) is a 55 kDa cytosolic protein with homology to the CD95/Fas-associated signal transducer, FADD/MORT-1, as well as to other caspase (ICE/Ced-3) cysteine proteases. The N-terminal region of Caspase-8 contains an amino acid sequence, termed the death domain, that facilitates Caspase-8-FADD direct interaction. FADD therefore acts as an adapter molecule, allowing Caspase-8 to become recruited to the cytoplasmic region of Fas following receptor activation. Viral proteins (v-FLIPS) which inhibit recruitment and activation of Caspase-8 have been isolated. Caspase-8 is produced as a proenzyme which upon receptor aggregation is proteolytically cleaved into 20 kDa and 10 kDa subunits. These subunits form a proteolytically active heterodimer capable of cleaving other Caspase family members, including PARP. Unlike other caspase family members, overexpression of FLICE is sufficient to induce apoptosis in certain cell lines (e.g., MCF-7) and this phenotype is blocked by overexpression of the Caspase-3 protease inhibitor, CrmA. The B9-2 antibody recognizes an ~55 kDa band corresponding to human Caspase-8 (FLICE). A recombinant human Caspase-8 protein fragment corresponding to amino acids 335-469 was used as immunogen.

**Western blot analysis of Caspase-8 (FLICE).**

Daudi B lymphoma cell lysates were probed with anti-human Caspase-8 (FLICE), (clone B9-2) Caspase-8 is identified as an ~ 55 kDa band.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at 4°C.

Application Notes**Application**

Western blot	Routinely Tested
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Recommended Assay Procedure:

Applications include western blot analysis (1-2 µg/ml). Daudi B lymphoma cells (ATCC CCL 213) and HL-60 leukemia cells (ATCC CCL 240) are suggested as positive controls.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

- Muzio M, Chinnaiyan AM, Kischkel FC, et al. FLICE, a novel FADD-homologous ICE/CED-3-like protease, is recruited to the CD95 (Fas/APO-1) death-inducing signaling complex. *Cell*. 1996; 85(6):817-827. (Biology)
- Thome M, Schneider P, Hofmann K, et al. Viral FLICE-inhibitory proteins (FLIPs) prevent apoptosis induced by death receptors. *Nature*. 1997; 386(6624):517-521. (Biology)