Technical Data Sheet

Purified Mouse Anti-Human Caspase-4

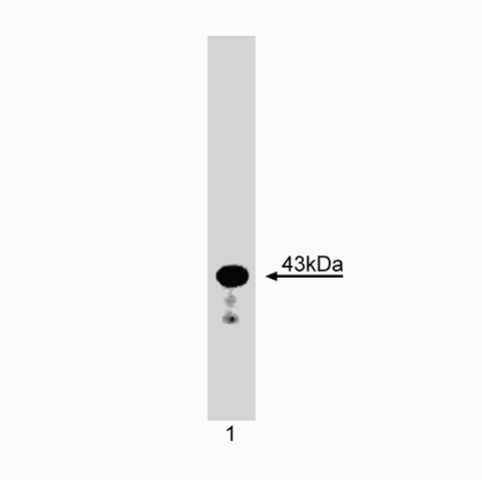
Product Information

Material Number:	**556459**
Alternate Name:	TX, Ich-2
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	B25-1
Immunogen:	Recombinant Human Caspase-4
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Target MW:	43 kDa
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

Caspase-4 (ICErelII, TX, ICH-2) is a 43 kDa cytosolic protein with homology to the ICE/Ced-3 family of cysteine proteases. Functional similarity with ICE proteases include the ability of Caspase-4 to induce apoptosis when overexpressed. Caspase-4 exhibits protease activity, cleaving both itself and the p30 ICE/caspase-1 proenzyme. However, unlike ICE/caspase-1, caspase-4 displays no IL-1β processing activity. Caspase-4 mRNA is expressed in most adult human tissues, suggesting a broad tissue distribution.

The B25-1 antibody recognizes an ~43 kDa band corresponding to human Caspase-4 (TX). A recombinant human Caspase-4 protein fragment corresponding to amino acids 334-377 was used as immunogen.



Western blot analysis of Caspase-4 (TX). *Lysates from 293 adenovirus-transformed human kidney cells were probed with anti-Caspase-4 (clone B25-1). The B25-1 antibody identifies Caspase-4 as an ~43 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

Recommended Assay Procedure:

Applications include western blot analysis (1-2 µg/ml). Jurkat T cells (ATCC TIB- 152) and 293 adenovirus-transformed human kidney cells (ATCC CRL-1573) are suggested as positive controls.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
611451	Jurkat Cell Lysate	500 µg	(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

Faucheu C, Diu A, Chan AW. A novel human protease similar to the interleukin-1 beta converting enzyme induces apoptosis in transfected cells. *EMBO J.* 1995; 14(9):1914-1922.(Biology)

Munday NA, Vaillancourt JP, Ali A. Molecular cloning and pro-apoptotic activity of ICErelII and ICErelIII, members of the ICE/CED-3 family of cysteine proteases. *J Biol Chem.* 1995; 270(26):15870-15876.(Biology)