Technical Data Sheet

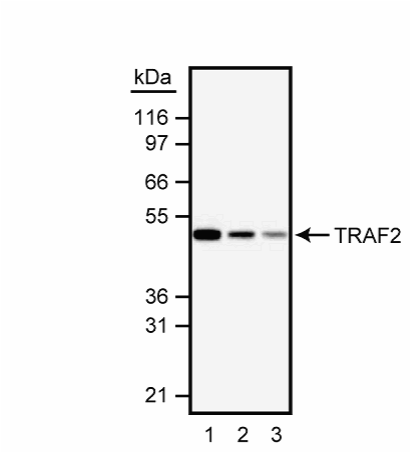
Purified Mouse Anti-Human TRAF2

Product Information

Material Number:	**558890**
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	C90-481
Immunogen:	Human TRAF2 aa. 93-199
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Human
Target MW:	53 kDa
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

TRAFs (**T**NF **r**eceptor **a**ssociated **f**actors) are signal transducing molecules which participate in forming TNF/Nerve Growth Factor receptor-associated signalling complexes. TRAF proteins share a novel C-terminal homology region, the "TRAF" domain, a coiled-coiled region and the majority have Zinc/RING finger motifs. At least six TRAF proteins (TRAFs 1-6) have been identified. These proteins are cytoplasmic adapters; they bind to cytoplasmic domains of various receptors and can function to recruit other proteins to a signaling complex thereby promoting intracellular signal transduction. Specifically, TRAF2 has been shown to interact with the following surface receptors: TNFRII, CD27, CD30, CD40, 4-1BB, Ox40, HVEM/ATAR and LMP-1. TRAF2 has also been shown to associate with intracellular proteins, including TRADD, FADD, I-TRAF/TANK, TRIP, A20, c-IAP1 and 2, Casper, RIP and NIK. Thus, the interaction of TRAF2 with these various receptors and intracellular proteins plays an important role modulating downstream events which can result in inducing cell death or keeping cells alive. For example, cells deficient in TRAF2 demonstrated increased sensitivity to TNF-induced cell death, but a decrease in TNF-induced JNK activation, and little change on NF-kB activation. TRAF2 is detected at ~ 53 kDa in western blot analysis. The C90-481 antibody reacts with human TRAF2. A synthetic protein freagment corresponding to amino acids 93-199 of human TRAF2 was used as immunogen.



Western blot analysis of TRAF2. *Lysates from Jurkat human T cells were probed with anti-human TRAF2 (clone C90-481) at 5.0 µg/ml (lane 1), 2.0 µg/ml (lane 2), and 1.0 µg/ml (lane 3). TRAF2 was detected at ~53 kDa*

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). Human cell lines including Jurkat T cells (ATCC TIB-152), 293 adenovirus-transformed kidney cells (ATCC CRL-1573) and Daudi Burkitt lymphoma cells (ATCC CCL-213) are recommended as positive controls.

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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)

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

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Yeh WC, Shahinian A, Speiser D. Early lethality, functional NF-kappaB activation, and increased sensitivity to TNF-induced cell death in TRAF2-deficient mice. *Immunity.* 1997; 7(5):715-725.(Clone-specific: Activation)