

Technical Data Sheet

FITC Mouse Anti-Bad

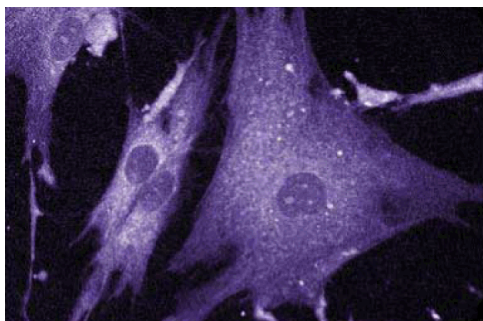
Product Information

Material Number:	610393
Size:	50 µg
Concentration:	250 µg/ml
Clone:	48/Bad
Immunogen:	Mouse Bad aa. 39-198
Isotype:	Mouse IgG2b
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat
Target MW:	23 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Isolated by screening for Bcl-2 interacting proteins, Bad shows significant homology to Bcl-2 within the Bcl-2 homology domains 1 and 2 (BH1 and BH2). In addition, several other proteins involved in cell death such as Bax, Bcl-X[L], Mcl-1, and A1 share similar homology with Bcl-2. Bcl-2 is known to oppose several apoptotic signals and is considered to be a central downstream cell death repressor. Bcl-X[L] represses apoptosis, but its short form, Bcl-X[S], promotes cell death. Bax is known to homodimerize as well as heterodimerize with Bcl-2. An excess concentration of Bax opposes the ability of Bcl-2 to repress cell death. Bad can selectively dimerize with Bcl-X[L] and Bcl-2, but not with Bax, Bcl-X[S], Mcl-1, A1, or itself. In mammalian cells, Bad binds more strongly to Bcl-X[L] than Bcl-2. This may explain why Bad reverses the death repressor activity of Bcl-X[L], but not that of Bcl-2. The formation of the Bad-Bcl-X[L] heterodimer displaces Bax and restores favorable conditions for apoptosis.

This antibody is routinely tested by immunofluorescence microscopy. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Immunofluorescence staining of human fibroblasts.

Preparation and Storage

Store undiluted at -20° C.

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

The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

Application Notes

Application

Immunofluorescence	Routinely Tested
Immunohistochemistry	Not Recommended

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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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. 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

Yang E, Zha J, Jockel J, Boise LH, Thompson CB, Korsmeyer SJ. Bad, a heterodimeric partner for Bcl-XL and Bcl-2, displaces Bax and promotes cell death. *Cell*. 1995; 80(2):285-291.(Biology)

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