

## Technical Data Sheet

## Purified Mouse Anti-B-Raf

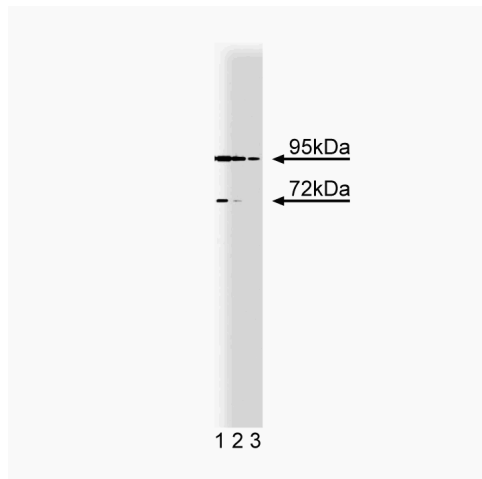
## Product Information

Material Number:	612374
Size:	50 µg
Concentration:	250 µg/ml
Clone:	13/B-RAF
Immunogen:	Human B-Raf aa. 285-406
Isotype:	Mouse IgG2a
Reactivity:	QC Testing: Human Tested in Development: Rat, Mouse
Target MW:	72/95 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

## Description

The Raf kinase family, A-Raf, B-Raf, and C-Raf, act as downstream effectors for Ras. These ser/thr kinases have homologous kinase domains referred to as conserved regions (CR1, CR2, and CR3). Rafs have a critical role in the response to many growth factors including: EGF, PDGF, insulin, IL-2, IL-3, CSF-1, and GM-CSF. Raf can directly interact with Ras-GTP and subsequently become activated. This leads to Raf activation of the MAP kinase pathway by phosphorylating and activating MEK, which then phosphorylates and activates MAP kinase (ERK). A-Raf is a proto-oncogene that is highly expressed in urogenital and kidney tissues while B-Raf is expressed at high levels in cerebrum and testes. C-Raf appears to be uniformly and ubiquitously expressed. Cell transformation by A-Raf has been shown to be independent of p21ras, suggesting the possibility of an independent signal transduction pathway. B-Raf is expressed as multiple isoforms that range from 69-72 kDa and 79-99 kDa. In hematopoietic cells, B-Raf is activated by EPO, GM-CSF, and SCF. Thus, the Raf kinases are important Ras effectors involved in growth factor signaling in a wide variety of cells and tissues.

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



**Western blot analysis of B-Raf on Jurkat cell lysate.**  
Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-B-Raf.

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.  
Store undiluted at -20° C.

## Application Notes

## Application

Western blot	Routinely Tested
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## BD Biosciences

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## Suggested Companion Products

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

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/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

Barnier JV, Papin C, Eychene A, Lecoq O, Calothy G. The mouse B-raf gene encodes multiple protein isoforms with tissue-specific expression. *J Biol Chem.* 1995; 270(40):23381-23389.(Biology)

Eychene A, Dusanter-Fourt I, Barnier JV. Expression and activation of B-Raf kinase isoforms in human and murine leukemia cell lines. *Oncogene.* 1995; 10(6):1159-1165.(Biology)

Sithanandam G, Kolch W, Duh FM, Rapp UR. Complete coding sequence of a human B-raf cDNA and detection of B-raf protein kinase with isozyme specific antibodies. *Oncogene.* 1990; 5(12):1775-1780.(Biology)

Yuryev A, Ono M, Goff SA, Macaluso F, Wennogle LP. Isoform-specific localization of A-RAF in mitochondria. *Mol Cell Biol.* 2000; 20(13):4870-4878.(Biology)