

Technical Data Sheet

Purified Mouse Anti-c-Jun (pS63)

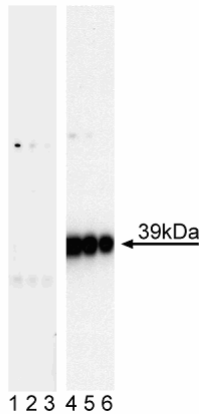
Product Information

Material Number:	558036
Size:	0.1 mg
Concentration:	0.25 mg/ml
Clone:	2/c-Jun/(S63)
Isotype:	Mouse IgG1
Reactivity:	Confirmed: Human Predicted: Mouse, Rat
Target MW:	39 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

The activator protein transcription factor (AP-1) was identified as a protein that recognizes specific sequences in the *cis*-control regions of the SV40 virus and the human metallothionein IIA gene. AP-1 is composed of protein products of two different gene families: *jun* and *fos*. The AP-1 transcription factor is either a homodimer of Jun proteins or a heterodimer of Jun and Fos proteins. The transcriptional activity of Jun is enhanced by phosphorylation of serines 63 (S63) and 73 in its activation domain. Phosphorylation at both sites is necessary for stimulating the activating function of Jun. Jun is phosphorylated by JNK protein kinases that are activated by the same signals that potentiate Jun activity.

The 2/c-Jun/(S63) monoclonal antibody recognizes the phosphorylated S63 of c-Jun.



Western blot analysis of c-Jun (pS63) in human vascular endothelium. Lysates from control (left panel) and calyculin A-treated (right panel) EA-hy 926 cells (Edgell, McDonald, Graham, 1983) were probed with purified Mouse Anti-c-Jun (pS63) monoclonal antibody at concentrations of 0.063, 0.032, and 0.016 µg/ml (lanes 1, 2, and 3, respectively). c-Jun (pS63) is identified as a band of 39 kDa in the treated cells.

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
Immunohistochemistry-formalin (antigen retrieval required)	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml.

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

References

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