Technical Data Sheet

Purified Mouse Anti-Jun

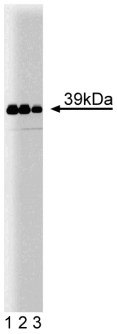
Product Information

Material Number:	**610326**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	3/Jun
Immunogen:	Mouse c-Jun aa. 26-175
Isotype:	Mouse IgG2a
Reactivity:	QC Testing: Human Tested in Development: Chicken, Dog, Mouse, Rat
Target MW:	39 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

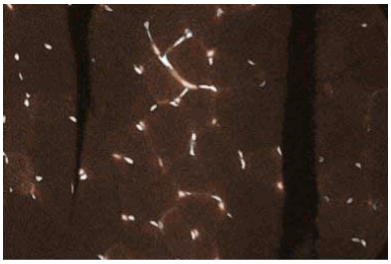
Description

The **a**ctivator **p**rotein 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 in its activation domain at Ser63 and Ser73. 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.

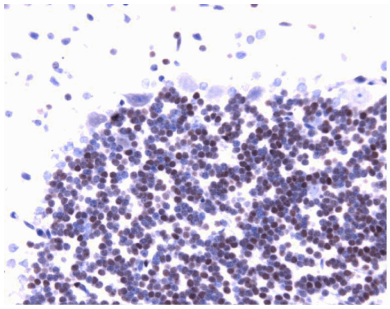
This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Western blot analysis of Jun on human endothelial cell lysate. *Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of anti-Jun antibody.*



Immunohistochemical staining of Rabbit Muscle tissue section. *SDS-treated formalin-fixed paraffin-embedded section.*



Immunohistochemical staining of rat brain. *Formalin-fixed paraffin-embedded section with citrate buffer pretreatment. 40X.*

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
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development
Immunoprecipitation	Tested During Development

BD Biosciences
bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit bdbiosciences.com/how_to_order/

BD Biosciences

Suggested Companion Products

Catalog Number	Name	Size	Clone
611450	Human Endothelial Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs	0.5 mg	Polyclonal

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

References

Taupin D, Wu DC, Jeon WK, Devaney K, Wang TC, Podolsky DK. The trefoil gene family are coordinately expressed immediate-early genes: EGF receptor- and MAP kinase-dependent interregulation. *J Clin Invest.* 1999; 103(9):R31-R38.(Clone-specific: Immunoprecipitation)

Chang YC, Nakajima H, Illenye S, et al. Caspase-dependent apoptosis by ectopic expression of E2F-4. *Oncogene.* 2000; 19(41):4713-4720.(Clone-specific: Western blot)

Doray B, Ghosh P, Griffith J, Geuze HJ, Kornfeld S. Cooperation of GGAs and AP-1 in packaging MPRs at the trans-Golgi network. *Science.* 2002; 297(5587):1700-1703.(Clone-specific: Immunohistochemistry, Western blot)

He T, Stepulak A, Holmstrom TH, Omary MB, Eriksson JE. The intermediate filament protein keratin 8 is a novel cytoplasmic substrate for c-Jun N-terminal kinase. *J Biol Chem.* 2002; 277(13):10767-10774.(Clone-specific: Western blot)

Lamph WW, Wamsley P, Sassone-Corsi P, Verma IM. Induction of proto-oncogene JUN/AP-1 by serum and TPA. *Nature.* 1988; 334(6183):629-631.(Biology)