CHICKEN c-SRC cDNA

(SEQ ID NO:2)

1 tctgacaccc atctgtctgt ctgtctgtgt gctgcaggag ctgagctgac tctgctgtgg
61 cctcgcgtac cactgtggcc aggcggtagc tgggacgtgc agcccaccac catggggagc
121 agcaagagca agcccaagga ccccagccag cgccggcgca gcctggagcc acccgacagc
181 acccaccacg ggggattccc agcctcgcag acccccaaca agacagcagc ccccgacacg
241 caccgcaccc ccagccgctc ctttgggacc gtggccaccg agcccaagct cttcgggggc
301 ttcaacactt ctgacaccgt tacgtcgccg cagcgtgccg gggcactggc tggcggcgtc
361 accactttcg tggctctcta cgactacgag tcccggactg aaacggactt gtccttcaag
421 aaaggagaac gcctgcagat tgtcaacaac acggaaggtg actggtggct ggctcattcc
481 ctcactacag gacagacggg ctacatcccc agtaactatg tcgcgccctc agactccatc
541 caggctgaag agtggtactt tgggaagatc actcgtcggg agtccgagcg gctgctgctc
601 aaccccgaaa acccccgggg aaccttcttg gtccgggaga gcgagacgac aaaaggtgcc
661 tattgcctct ccgtttctga ctttgacaac gccaaggggc tcaatgtgaa gcactacaag
721 atccgcaagc tggacagcgg cggcttctac atcacctcac gcacacagtt cagcagcctg
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841 gtctgcccca cgtccaagcc ccagacccag ggactcgcca aggacgcgtg ggaaatcccc
901 cgggagtcgc tgcggctgga ggtgaagctg gggcagggct gctttggaga ggtctggatg
961 gggacctgga acggcaccac cagagtggcc ataaagactc tgaagcccgg caccatgtcc
1021 ccggaggcct tcctgcagga agcccaagtg atgaagaagc tccggcatga gaagctggtt
1081 cagctgtacg cagtggtgtc ggaagagccc atctacatcg tcactgagta catgagcaag
1141 gggagcctcc tggatttcct gaagggagag atgggcaagt acctgcggct gccacagctc
1201 gtcgatatgg ctgctcagat tgcatccggc atggcctatg tggagaggat gaactacgtg
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1621 gaggagcggc ccacttttga gtacctgcag gccttcctgg aggactactt cacctcgaca
1681 gagccccagt accagcctgg agagaaccta taggcctgga gctcctcctg gaccagaggc
1741 ctcgctgtgg ggtacaggg

FIG. 1

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CHICKEN cSRC ENCODED PROTEIN

(SEQ ID NO:3)

MGSSKSKPKDPSQRRRSLEPPDSTHHGGFPASQTPNKTAA

PDTHRTPSRSFGTVATEPKLFGGFNTSDTVTSPQRAGALA

GGVTTFVALYDYESRTETDLSFKKGERLQIVNNTEGDWWL

AHSLTTGQTGYIPSNYVAPSDSIQAEEWYFGKITRRESER

LLLNPENPRGTFLVRESETTKGAYCLSVSDFDNAKGLNVK

HYKIRKLDSGGFYITSRTQFSSLQQLVAYYSKHADGLCHR

LTNVCPTSKPQTQGLAKDAWEIPRESLRLEVKLGQGCFGE

VWMGTWNGTTRVAIKTLKPGTMSPEAFLQEAQVMKKLRHE

KLVQLYAVVSEEPIYIVTEYMSKGSLLDFLKGEMGKYLRL

PQLVDMAAQIASGMAYVERMNYVHRDLRAANILVGENL

VCKVADFGLARLIEDNEYTARQGAKFPIKWTAPEAALYGR

FTIKSDVWSFGILLTELTTKGRVPYPGMVNREVLDQVERG

YRMPCPPECPESLHDLMCQCWRRDPEERPTFEYLQAFLE

DYFTSTEPQYQPGENL

FIG. 2

HUMAN c-SRC cDNA

(SEQ ID NO:4)

1 gcgccgcgtc ccgcaggccg tgatgccgcc cgcgcggagg tggcccggac cgcagtgccc
61 caagagagct ctaatggtac caagtgacag gttggcttta ctgtgactcg gggacgccag
121 agctcctgag aagatgtcag caatacaggc cgcctggcca tccggtacag aatgtattgc
181 caagtacaac ttccacggca ctgccgagca ggacctgccc ttctgcaaag gagacgtgct
241 caccattgtg gccgtcacca aggaccccaa ctggtacaaa gccaaaaaca aggtgggccg
301 tgagggcatc atcccagcca actacgtcca gaagcgggag ggcgtgaagg cgggtaccaa
361 actcagcctc atgccttggt tccacggcaa gatcacacgg gagcaggctg agcggcttct
421 gtacccgccg gagacaggcc tgttcctggt gcgggagagc accaactacc ccggagacta
481 cacgctgtgc gtgagctgcg acggcaaggt ggagcactac cgcatcatgt accatgccag
541 caagctcagc atcgacgagg aggtgtactt tgagaacctc atgcagctgg tggagcacta
601 cacctcagac gcagatggac tctgtacgcg cctcattaaa ccaaaggtca tggagggcac
661 agtggcggcc caggatgagt tctaccgcag cggctgggcc ctgaacatga aggagctgaa
721 gctgctgcag accatcggga agggggagtt cggagacgtg atgctgggcg attaccgagg
781 gaacaaagtc gccgtcaagt gcattaagaa cgacgccact gcccaggcct tcctggctga
841 agcctcagtc atgacgcaac tgcggcatag caacctggtg cagctcctgg gcgtgatcgt
901 ggaggagaag ggcgggctct acatcgtcac tgagtacatg gccaagggga gccttgtgga
961 ctacctgcgg tctaggggtc ggtcagtgct gggcggagac tgtctcctca agttctcgct
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1081 tgcccgcaat gtgctggtgt ctgaggacaa cgtggccaag gtcagcgact ttggtctcac
1141 caaggaggcg tccagcaccc aggacacggg caagctgcca gtcaagtgga cagcccctga
1201 ggccctgaga gagaagaaat tctccactaa gtctgacgtg tggagtttcg gaatccttct
1261 ctgggaaatc tactcctttg ggcgagtgcc ttatccaaga attcccctga aggacgtcgt
1321 ccctcgggtg gagaagggct acaagatgga tgccccgac ggctgcccgc ccgcagtcta
1381 tgaagtcatg aagaactgct ggcacctgga cgccgccatg cggccctcct tcctacagct
1441 ccgagagcag cttgagcaca tcaaaaccca cgagctgcac ctgtgacggc tggcctccgc
1501 ctgggtcatg ggcctgtggg gactgaacct ggaagatcat ggacctggtg cccctgctca
1561 ctgggcccga gcctgaactg agccccagcg ggctggcggg ccttttcct gcgtcccagc
1621 ctgcaccct ccggccccgt ctctcttgga cccacctgtg gggcctgggg agcccactga
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1741 ctggcctccc gccactcgcc ttcttagagt tttattcctt tccttttttg agatttttt
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1861 ggcattttac aagaagtacg aatcttattt ttcctgtcct gcccgtgagg gtgggggga
1921 ccgggccccct ctctagggac ccctcgcccc agcctcattc cccattctgt gtcccatgtc
1981 ccgtgtctcc tcggtcgccc cgtgtttgcg cttgaccatg ttgcactgtt tgcatgcgcc
2041 cgaggcagac gtctgtcagg ggcttggatt tcgtgtgccg ctgccacccg cccacccgcc
2101 ttgtgagatg gaattgtaat aaaccacgcc atgaggacac cgccgcccgc ctcggcgctt
2161 cctccaccga aaaaaaaaaa aaaaaaa

FIG. 3

HUMAN c-SRC ENCODED PROTEIN

(SEQ ID NO:5)

MSAIQAAWPSGTECIAKYNFHGTAEQDLPFCKGDVLTIVAVTKD

PNWYKAKNKVGREGIIPANYVQKREGVKAGTKLSLMPWFHGKIT

REQAERLLYPPETGLFLVRESTNYPGDYTLCVSCDGKVEHYRIMY

HASKLSIDEEVYFENLMQLVEHYTSDADGLCTRLIKPKVMEGTVA

AQDEFYRSGWALNMKELKLLQTIGKGEFGDVMLGDYRGNKVAV

KCIKNDATAQAFLAEASVMTQLRHSNLVQLLGVIVEEKGGLYIVTE

YMAKGSLVDYLRSRGRSVLGGDCLLKFSLDVCEAMEYLEGNNFVH

RDLAARNVLVSEDNVAKVSDFGLTKEASSTQDTGKLPVKWTAPEAL

REKKFSTKSDVWSFGILLWEIYSFGRVPYPRIPLKDVVPRVEKGYKM

DAPDGCPPAVYEVMKNCWHLDAAMRPSFLQLREQLEHIKTHELHL

FIG. 4

Activation of endogenous Src activity by bFGF and VEGF

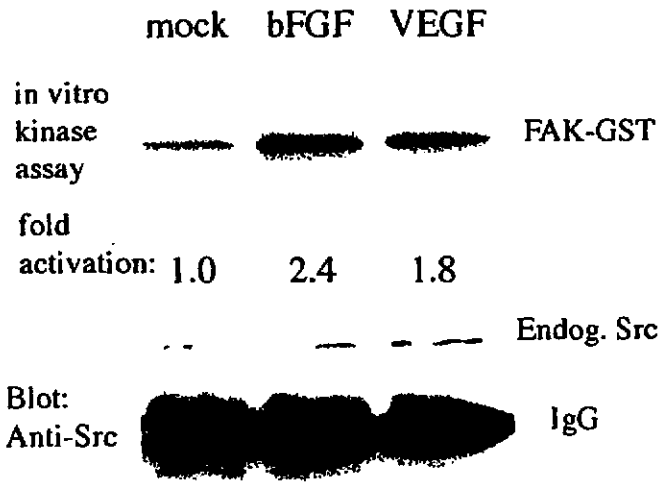


FIG. 5

Effect of RCAS-mediated expression of Src A on angiogenesis in the chick CAM

FIG. 6A

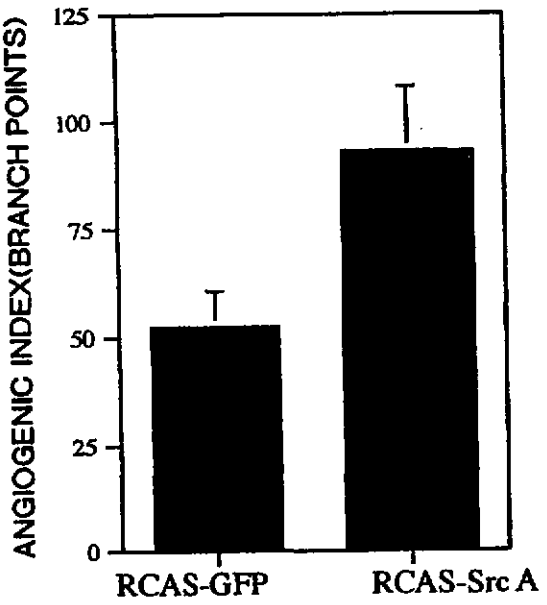
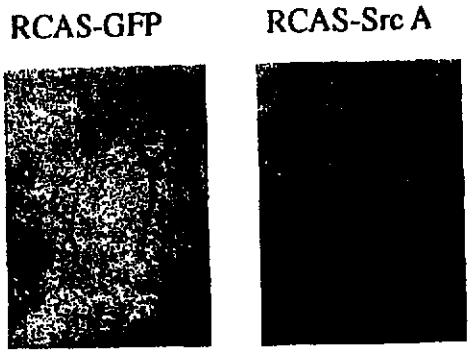
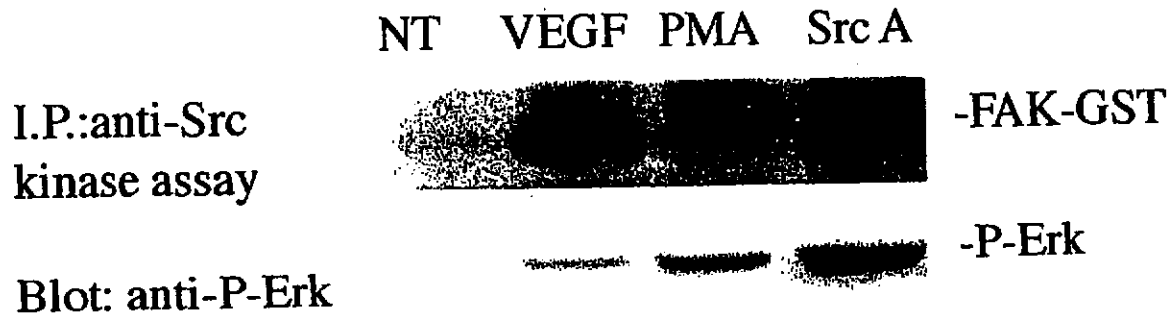


FIG. 6B



Retroviral expression of Src A activates vascular MAP kinase phosphorylation



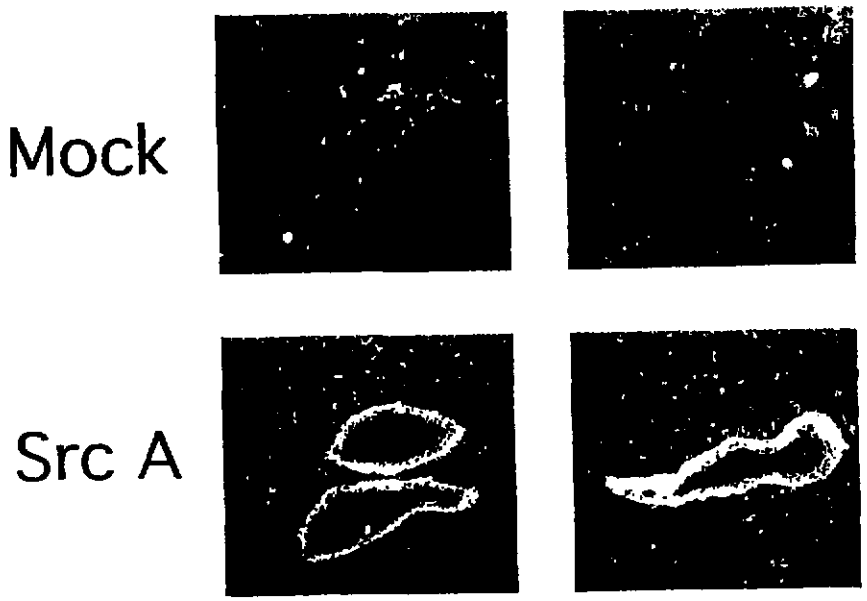


FIG. 7

Selective requirement for Src activity during VEGF, but not bFGF-induced angiogenesis

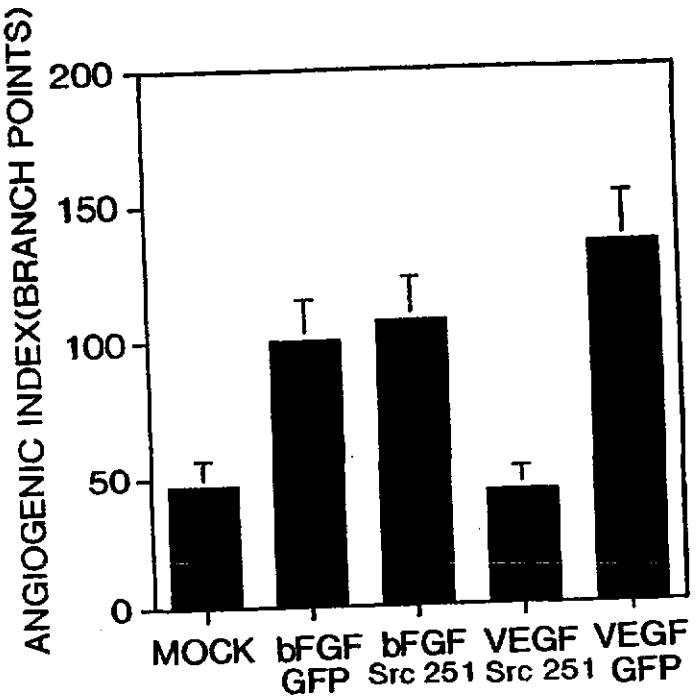


FIG. 8A

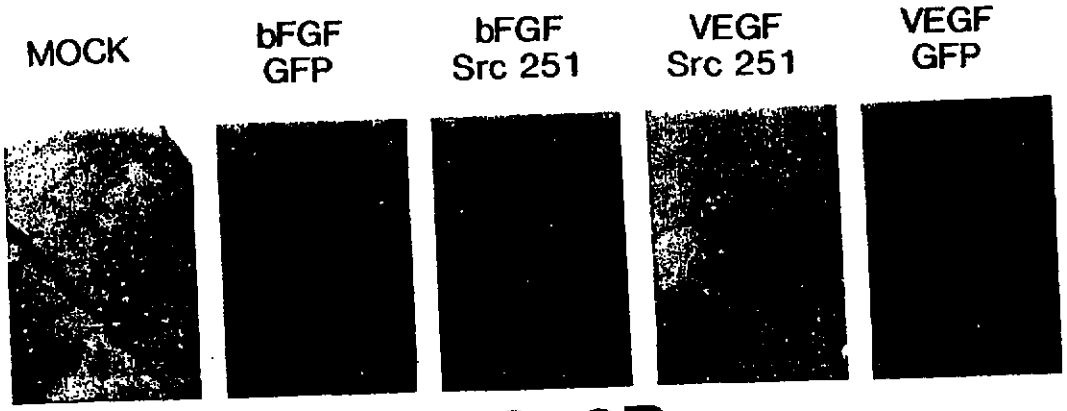


FIG. 8B

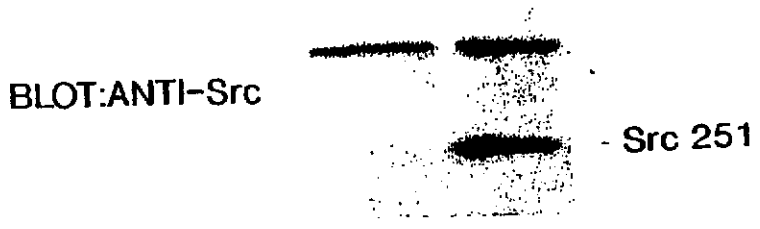


FIG. 8C

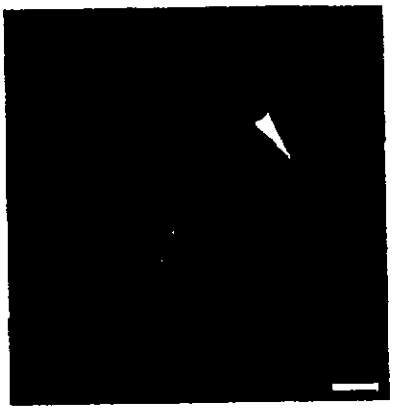


FIG. 9A

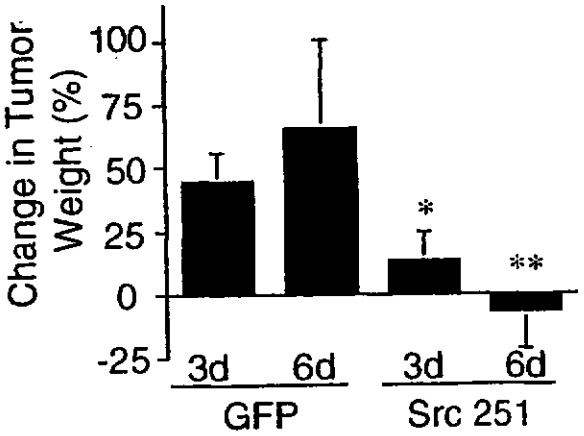


FIG. 9B



FIG. 9C

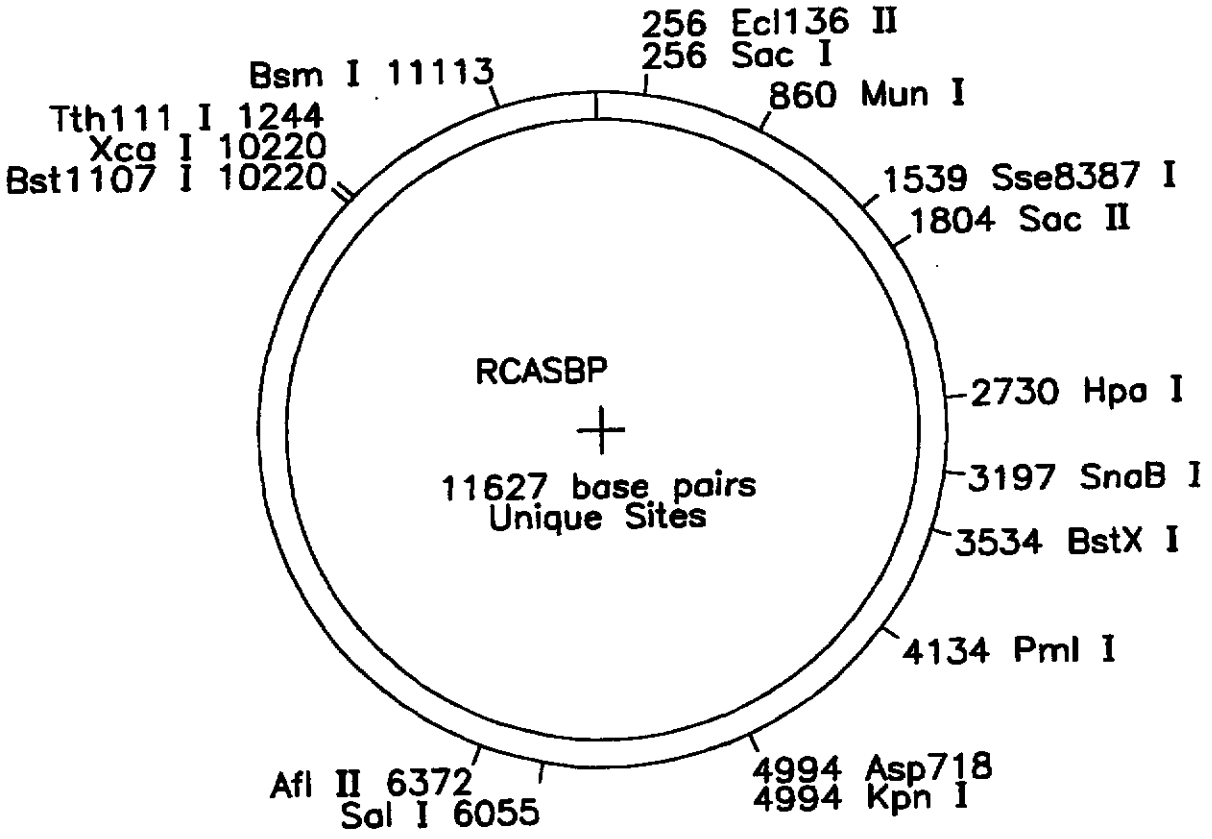

256 Ecl136 II
256 Sac I
860 Mun I
1539 Sse8387 I
1804 Sac II
2730 Hpa I
3197 SnaB I
3534 BstX I
4134 Pml I
4994 Asp718
4994 Kpn I
Afl II 6372
Sal I 6055
Bsm I 11113
Tth111 I 1244
Xca I 10220
Bst1107 I 10220
RCASBP
11627 base pairs
Unique Sites

FIG. 10

human Yes-1 Protein amino acid sequence

"MGCIKSKENKSPAIKYRPENTPEPVSTSVSHYGAEPTTVSPCPS
SSAKGTAVNFSSLSMTPFGGSSGVTPFGGASSSFSVVPSSYPAGLTGGVTIFVALYDY
EARTTEDLSFKKGERFQIINNTEGDWWEARSIATGKNGYIPSNYVAPADSIQAEEWYF
GKMGRKDAERLLLNPGNQRGIFLVRESETTKGAYSLSIRDWDEIRGDNVKHYKIRKLD
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LRLEVKLGQGCFGEVWMGTWNGTTKVAIKTLKPGTMMPEAFLQEAQIMKKLRHDKLVP
LYAVVSEEPIYIVTEFMSKGSLLDFLKEGDGKYLKLPQLVDMAAQIADGMAYIERMNY
IHRDLRAANILVGENLVCKIADFGLARLIEDNEYTARQGAKFPIKWTAPEAALYGRFT
IKSDVWSFGILQTELVTKGRVPYPGMVNREVLEQVERGYRMPCPQGCPESLHELMNLC
WKKDPDERPTFEYIQSFLEDYFTATEPQYQPGENL"

FIG. 11

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```
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  61 gtcgcctatc ctgaccacag caaagcggcc cggagcccgc ggaggggacc tgacgggggc
 121 gtaggcgccg gaaggctggg ggccccggag ccgggccggc gtggcccgag ttccggtgag
 181 cggacggcgg cgcgcgcaga tttgataatg ggctgcatta aaagtaaaga aaacaaaagt
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 301 tatggagcag aacccactac agtgtcacca tgtccgtcat cttcagcaaa gggaacagca
 361 gttaatttca gcagtctttc catgacacca tttggaggat cctcaggggt aacgcctttt
 421 ggaggtgcat cttcctcatt ttcagtggtg ccaagttcat atcctgctgg tttaacaggt
 481 ggtgttacta tatttgtggc cttatatgat tatgaagcta gaactacaga agacctttca
 541 tttaagaagg gtgaaagatt tcaaataatt aacaatacgg aaggagattg gtgggaagca
 601 agatcaatcg ctacaggaaa gaatggttat atcccgagca attatgtagc gcctgcagat
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 901 actctgcaga aattggtgaa acactacaca gaacatgctg atggtttatg ccacaagttg
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1861 gcacaaatct gccaaaatat aaagaacttg tgtagatttt ctacaggaat caaaagaaga
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3241 ctgcctccca ggttcacacc attctcctgc ctcagcctcc cgagtagctg ggactacagg
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3361 ttagccagga tggtctcgat ctcctgacct tgtgatctgc ccgcctcggc ctcccaaagt
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```

FIG. 12A

```
3481 atggtggtca ttttttccct tttagaatac attaaatggt tgatttgggg aggaaaactt
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FIG. 12B

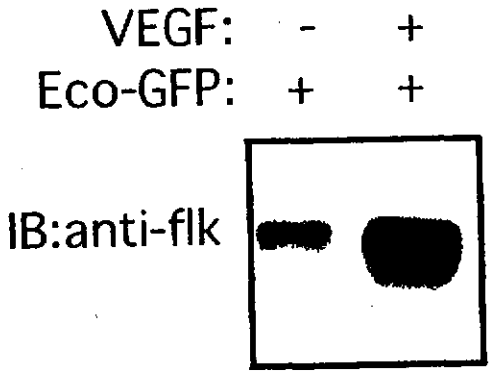


FIG. 13A

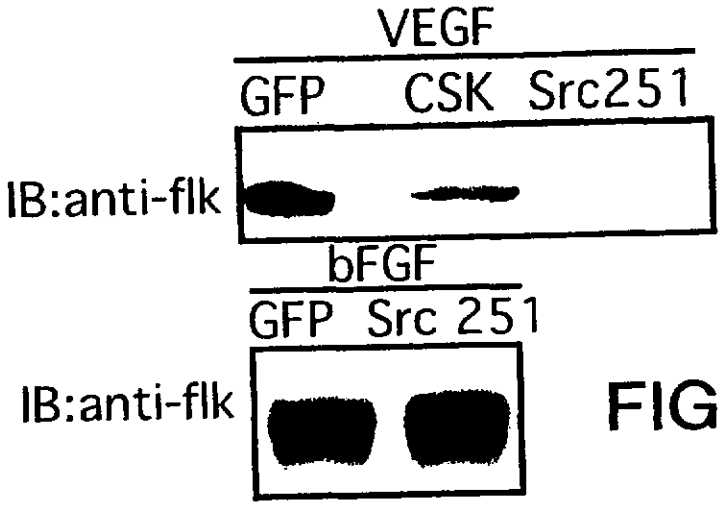


FIG. 13B

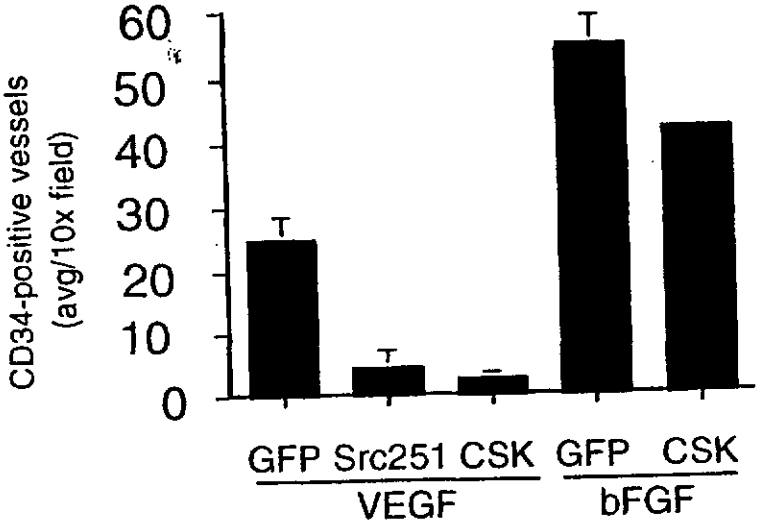
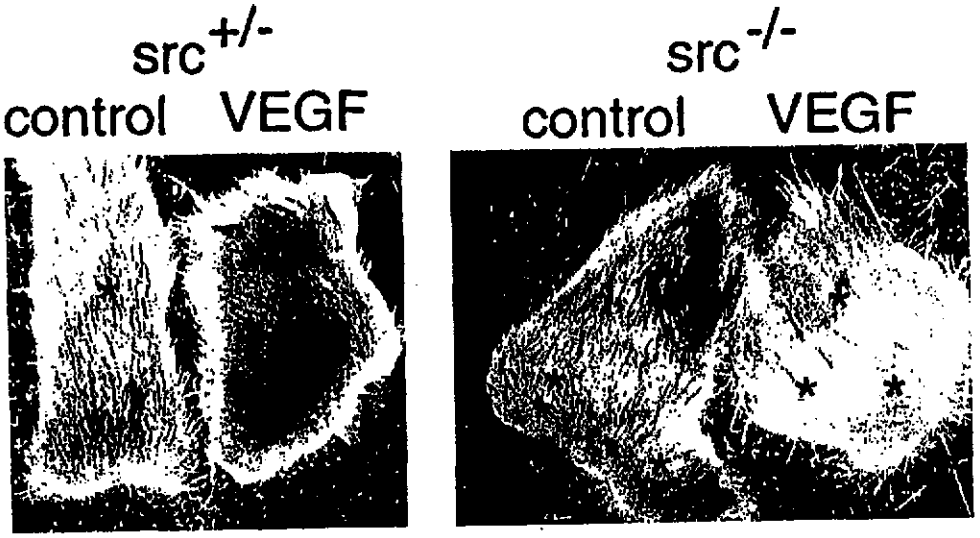


FIG. 13C

FIG. 14A



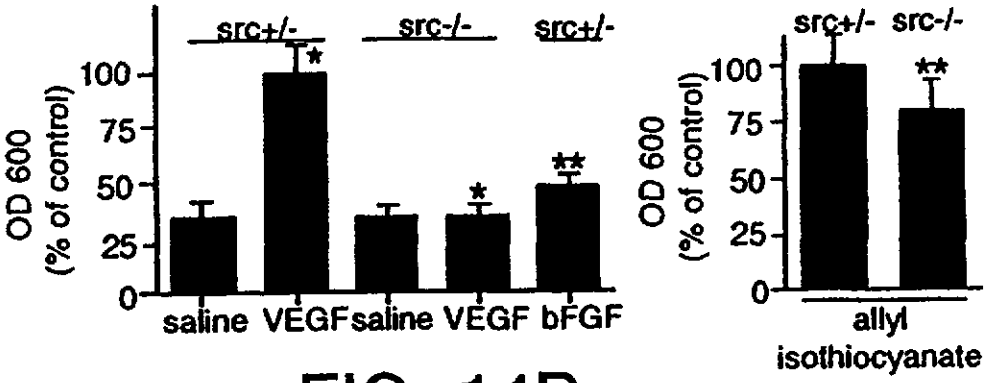


FIG. 14B

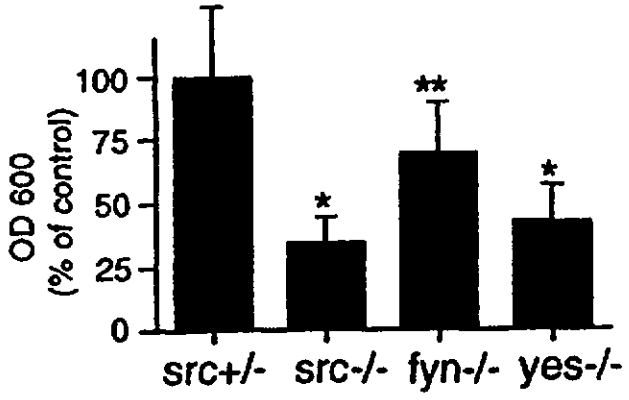


FIG. 14C

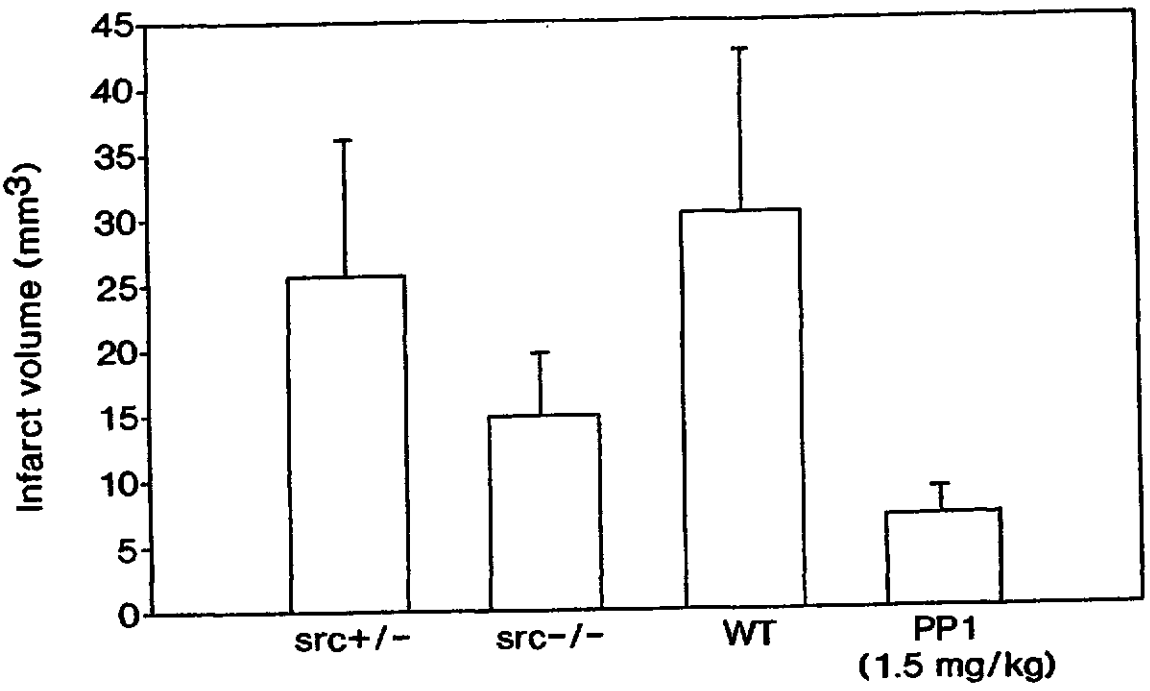
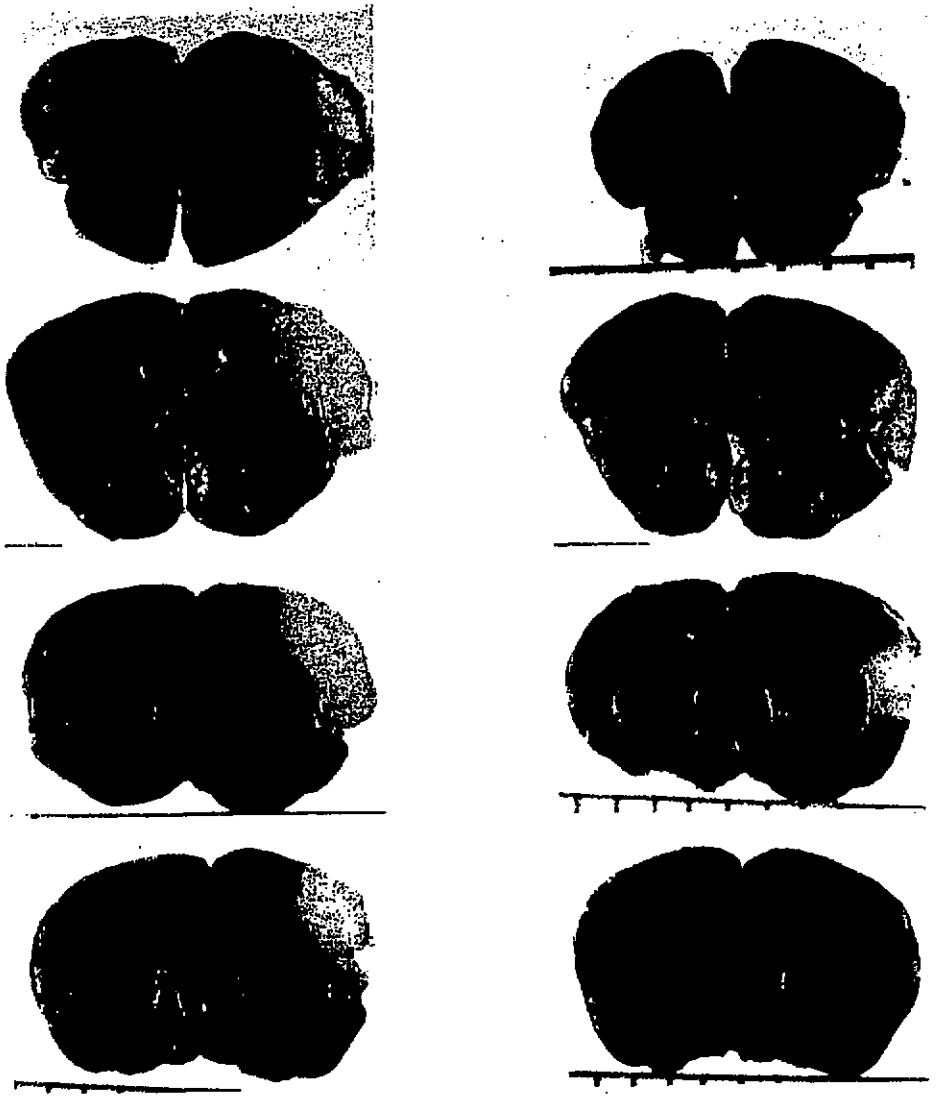

Infarct volume (mm3)
45
40
35
30
25
20
15
10
5
0
src+/-
src-/-
WT
PP1
(1.5 mg/kg)

FIG. 15



PP1

control