Figure S1. (A) ChIP assay with NFκB antibodies and a control, normal rabbit IgG. IPs were PCR amplified to yield a 290bp fragment of the NRF-1 promoter spanning the ATF sites (n=3). (B-G): TMP inhibits corneal neovascularization in a suture-induced neovascularization model in rats. Compared to the injury group, the length of new blood vessels was shortened and the area was much smaller in the TMP-treated group. Photos were taken by slit lamp at day 10. (n=8/group)
Figure S2. According to immunofluorescence results, TMP inhibited expression of CXCR4, NRF-1, and NFκB in suture-induced corneal neovascularization models. (A & B) Staining results suggest treatment with TMP inhibited expression of CXCR4 (green) in the corneas. (C & D) After TMP treatment, the intensity of NRF-1 (red) fluorescence decreased significantly. (E & F) The fluorescence staining intensity of NFκB (red) also fell notably in the TMP-treated group. (D) Nuclei were stained with DAPI (blue) (n=8/group)
Figure 5

<table>
<thead>
<tr>
<th>CXCR4 44kD</th>
<th>NFkB 65kD</th>
<th>NRF-1 68kD</th>
<th>GAPDH 37kD</th>
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<tbody>
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<td><img src="image" alt="GAPDH" /></td>
</tr>
</tbody>
</table>

1: +vector; 2: +pEPI-NRF-1; 3: +pEV-p105-NFkB; 4: +pEPI-NRF-1 and +pEV-p105-NFkB

The molecular weight of NRF-1 and NFkB is near, so the membranes was washed and stained again. Thus, they shared the same membranes.

The molecular weight of GAPDH and CXCR4 is near, so the membranes was washed and stained again. Thus, they shared the same membranes.

Figure S6

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Figure S3-S8. The full blots of Fig. 4C, Fig. 5 and Fig. 6E.

Figure S7

The full blots of Fig. 4C, Fig. 5 and Fig. 6E.

Figure 5

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<tr>
<td>CXCR4 44kD</td>
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<tr>
<td>CXCR4</td>
</tr>
<tr>
<td>NRF-1</td>
</tr>
</tbody>
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The molecular weight of NRF-1 and NFkB is near, so the membranes was washed and stained again. Thus, they shared the same membranes.

Figure S8

The full blots of Fig. 4C, Fig. 5 and Fig. 6E.

Figure 6E

<table>
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<tbody>
<tr>
<td>NFkB 65kD</td>
</tr>
<tr>
<td>NFkB</td>
</tr>
</tbody>
</table>
| 1: +pcDNA3.1-vector; 2: +pcDNA3.1-NFkB;
The molecular weight of NRF-1 and NFkB is near, so the membranes was washed and stained again. Thus, they shared the same membranes.
Figure S9

A  VEGF  DAPI  Merge
   100x  100x  100x

B  Isotype  DAPI  Merge
   100x  100x  100x

C  CXCR4  DAPI  Merge
   100x  100x  100x

D  Isotype  DAPI  Merge
   100x  100x  100x

E  NRF1  DAPI  Merge
   100x  100x  100x

F  Isotype  DAPI  Merge
   100x  100x  100x

G  NFKB  DAPI  Merge
   100x  100x  100x

H  Isotype  DAPI  Merge
   100x  100x  100x
Figure S9. Immunofluorescence staining results of murine corneas after alkali burned injury without treatment using antibodies or concentration matched isotype control at 100× magnification (A-B: VEGF vs isotype; C-D: CXCR4 vs isotype; E-F: NRF1 vs isotype; G-H: NFκB vs isotype). Nuclei were stained with DAPI (blue).