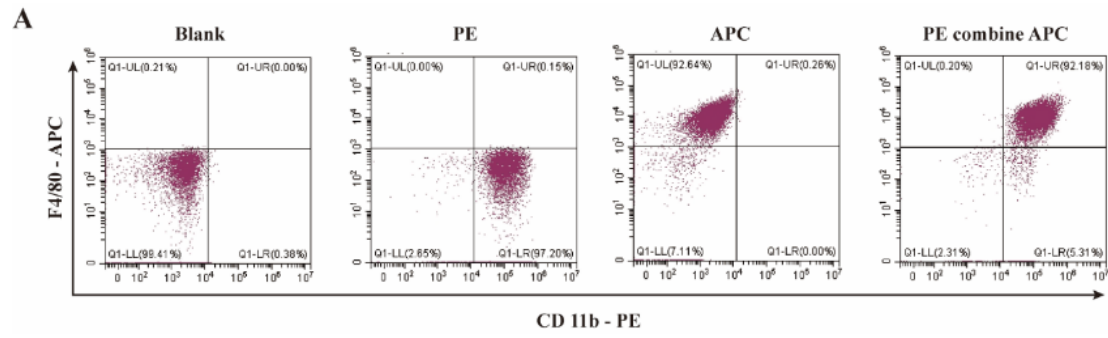
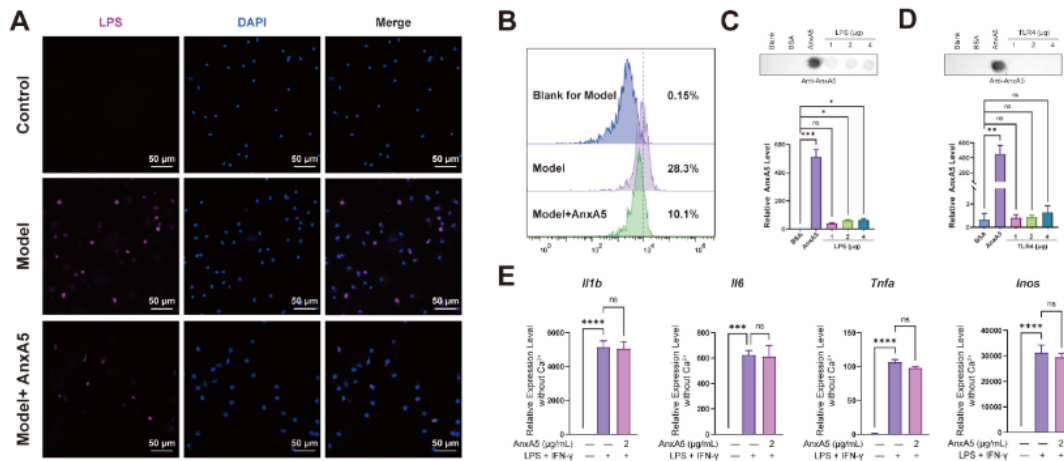


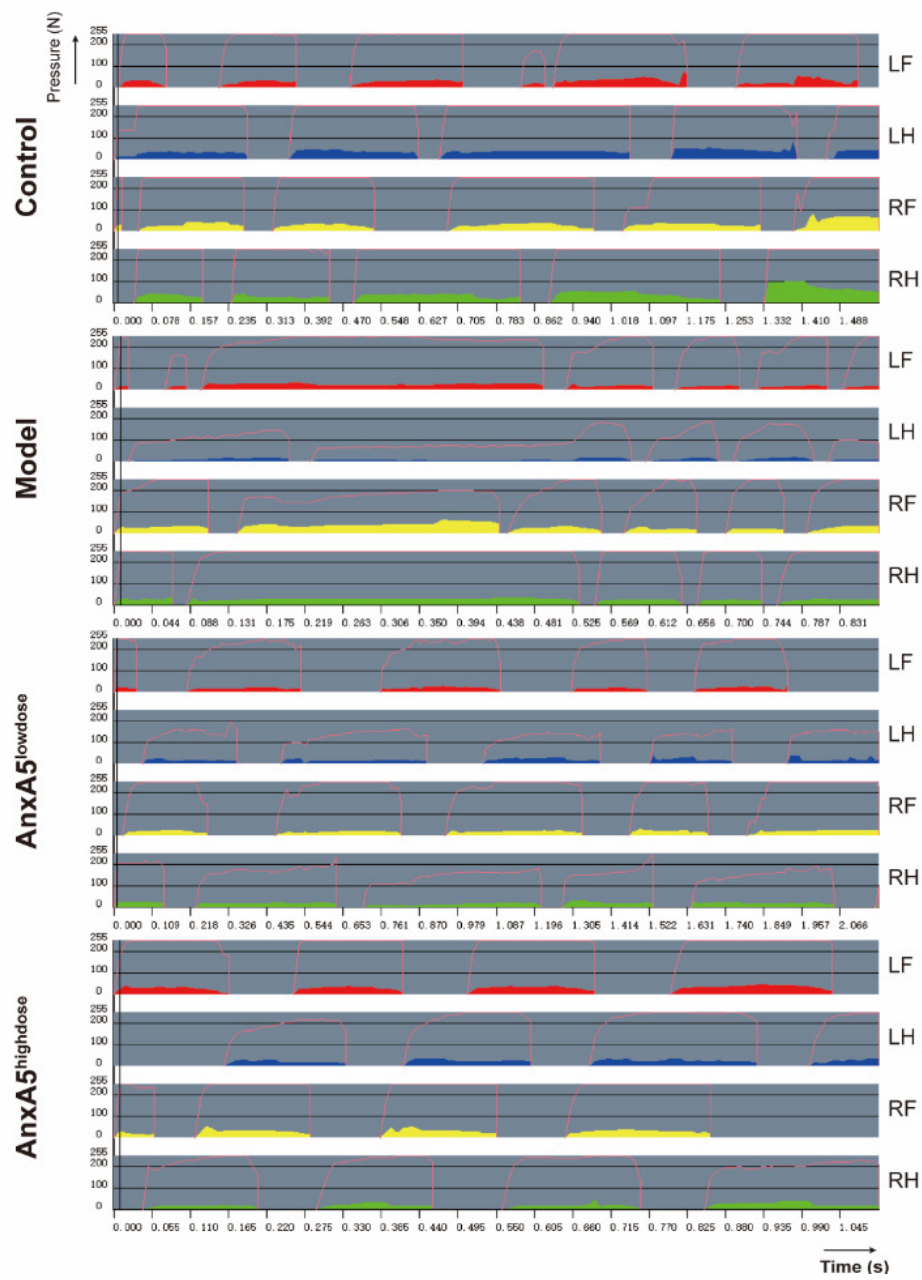
## Supplementary Information



**Supplementary Figure 1.** Identification of BMDMs using flow cytometry.



**Supplementary Figure 2.** AnxA5 Activity Requires Calcium Ions. **A, B** Representative fluorescence microscopy images and flow cytometry analysis of LPS-FITC staining in AnxA5-treated macrophages. **C** Dot-immunoblot between AnxA5 and LPS. **D** Dot-immunoblot between AnxA5 and TLR4. **E** The ability of AnxA5 to inhibit M1 macrophage polarization was lost in calcium ion-deficient culture medium. Scale bars were noted on the right bottom corner of each picture. Data presented as mean  $\pm$  SD (n=3 per group). \* $p < 0.033$ ; \*\* $p < 0.002$ ; \*\*\* $p < 0.001$ ; ns, not significant.



**Supplementary Figure 3.** Representative gait pressure analysis for RF, RH, LF, and LH in different groups.

**Supplementary Table1.** Gene primers used in the article.

Mouse <i>Il1b</i> -F	GAAATGCCACCTTTTGACAGTG
Mouse <i>Il1b</i> -R	TGGATGCTCTCATCAGGACAG
Mouse <i>Il6</i> -F	CTGCAAGAGACTTCCATCCAG
Mouse <i>Il6</i> -R	AGTGGTATAGACAGGTCTGTTGG
Mouse <i>Tnfa</i> -F	CAGGCGGTGCCTATGTCTC
Mouse <i>Tnfa</i> -R	CGATCACCCCGAAGTTCAGTAG
Mouse <i>Inos</i> -F	ACATCGACCCGTCCACAGTAT
Mouse <i>Inos</i> -R	CAGAGGGGTAGGCTTGTCTC
Mouse <i>Arg</i> -F	CTCCAAGCCAAAGTCCTTAGAG
Mouse <i>Arg</i> -R	GGAGCTGTCATTAGGGACATCA
Mouse <i>Il10</i> -F	GCCCTTTGCTATGGTGTC
Mouse <i>Il10</i> -R	TCTCCCTGGTTTCTCTTCC
Mouse <i>Tgfb</i> -F	CCAGATCCTGTCCAAACTAAGG
Mouse <i>Tgfb</i> -R	CTCTTTAGCATAGTAGTCCGCT
Mouse <i>Gapdh</i> -F	ATGGTGAAGGTCGGTGTGAA
Mouse <i>Gapdh</i> -R	TGAGTGGAGTCATACTGGAACA
Mouse <i>Cxcl10</i> -F	CAACTGCATCCATATCGATGAC
Mouse <i>Cxcl10</i> -R	GATTCCGGATTCAGACATCTCT
Mouse <i>Ccl5</i> -F	GTATTTCTACACCAGCAGCAAG
Mouse <i>Ccl5</i> -R	TCTTGAACCCACTTCTTCTCTG
Mouse <i>Cox2</i> -F	GCAAATTGCTGGCAGGGTTG
Mouse <i>Cox2</i> -R	CAGCATAAAGCGTTTGC GG TAC
Mouse <i>Cxcl11</i> -F	AACAGGAAGGTCACAGCCATAGC
Mouse <i>Cxcl11</i> -R	CAACTTTGTCGACCCGTTACTC
Mouse <i>Il12b</i> -F	GGGAGCTGGAGAAAGACGTT
Mouse <i>Il12b</i> -R	GAGCCTATGACTCCATGTCTCTG
Mouse <i>Il18</i> -F	AGACAGTGAAGTAAGAGGACTGG
Mouse <i>Il18</i> -R	TTCAGGTGGATCCATTTCTCTCA
Mouse <i>Myd88</i> -F	GCGAGCTAATTGAGAAAAGGTGC
Mouse <i>Myd88</i> -R	AAGTCCTTCTTCATCGCCTTGT
Mouse <i>Tlr1</i> -F	GGCTGCTCTTATTTCTTACGTG
Mouse <i>Tlr1</i> -R	TGAAGGAATTCCACGTTGTTTC
Mouse <i>Tlr2</i> -F	CCGAAACCTCAGACAAAGCG
Mouse <i>Tlr2</i> -R	CCCAGAAGCATCACATGACAGA
Mouse <i>Tlr3</i> -F	TCTCTGGGCTGAAGTGGACAAATC
Mouse <i>Tlr3</i> -R	AGAAGGAACCGTTGCCGACATC
Mouse <i>Tlr4</i> -F	TTGAATCCCTGCATAGAGGTAGTT
Mouse <i>Tlr4</i> -R	TGGTTGAAGAAGGAATGTCATCAG
Mouse <i>Tlr8</i> -F	TGGCTCACCATTTGTTTACTG
Mouse <i>Tlr8</i> -R	AAAGGAGAACGTTTTTGTCTCG
Mouse <i>Adams5</i> -F	AATGGGTTCCCAAATATGCAGGTGT
Mouse <i>Adams5</i> -R	GTCCCATCCGTAACCTTTGGAGA
Mouse <i>Mmp3</i> -F	ACATGGAGACTTTGTCCCTTTTG
Mouse <i>Mmp3</i> -R	TTGGCTGAGTGGTAGAGTCCC
Mouse <i>Mmp9</i> -F	CTGGACAGCCAGACACTAAAG
Mouse <i>Mmp9</i> -F	CTCGCGCAAGTCTTCAGAG
Mouse <i>Mmp13</i> -F	CTTCTTCTTGTTGAGCTGGACTC
Mouse <i>Mmp13</i> -F	CTGTGGAGGTCACTGTAGACT