### SUPPLEMENTARY TABLES

#### Supplementary Table 1. Antibodies used in this study.

| Factor or PTM          | Vendor | Cat number | Dilution for blotting | Vol.for ChIP (μl) |
|------------------------|--------|------------|------------------------|------------------|
| BRD2 (for human)       | Abcam  | ab139690   | 1:1,000                | 8                |
| BRD2 (for mouse)       | Abcam  | ab3718     | 1:1,000                |                  |
| BRD3                   | Bethyl | A302-368A  | 1:1,000                | 8                |
| BRD4                   | Bethyl | A700-004   | 1:1,000                | 5                |
| H3K27ac                | Abcam  | ab4729     | 1:1,000                | 8                |
| H3                     | Abcam  | ab1791     | 1:3,000                |                  |
| P53                    | Abcam  | ab131442   | 1:1,000                |                  |
| P21                    | Abcam  | ab109199   | 1:1,000                |                  |
| P16INK4                | Abcam  | ab189034   | 1:1,000                |                  |
| NFXB                   | GeneTex| GTX102090  | 1:1,000                | 5                |
| p-NFXB                 | GeneTex| GTX55114   | 1:1,000                |                  |
| β-Actin                | Abcam  | ab8227     | 1:1,000                |                  |
| HRP-conjugated goat anti-rabbit secondary antibody | Jackson Labs | 111035003 | 1:30,000 |
| HRP-conjugated goat anti-mouse secondary antibody | Jackson Labs | 115036003 | 1:30,000 |

#### Supplementary Table 2. RT-PCR primers used in this study (human).

| Gene name | Forward sequence | Reverse sequence |
|-----------|------------------|------------------|
| IL6       | TTCTGCGCAGCTTTAAGGAG | AGGTGCCCATGCTACATTTG |
| IL8       | ATGACTTCCAAGCTGCGGTG | TGTGTGGCCAGCTGTCGTC |
| CXCL1     | CACCCCCAAAGATACCAAAG | TAATATGGGGGATGCAAGGA |
| CXCL6     | TGTTTACCGTGTCGCGTGA | AACCTGCTTTCCCAGTTCCA |
| VEGFC     | AGAGAAACAGGCCAAACCTCAA | TGGCATGCAATGCTCTTTC |
| INHBA     | CGGCGCTTCTGAAACGCCATC | GCTGTTCTCAGCTCGACGAAAGCT |
| MMP3      | AGGGAACTTGAGCGTGTAATC | TCACCTTGCTGTGCAACAG |
| AREG      | AGCTGCTTTAATGCTCTG | TTTGCTGTCCTAGCTTCCC |
| IL1β      | TGCACTCTGCGGGAGACTCAC | CATGGAAGAACACACTTGTTG |
| BRD2      | GGAAAAACATAGCTTGCAATGC | CACTCAGAACGCCCCAATAA |
| BRD3      | TGCAAGGCGATATGACGAGGA | CATCTGGGCACTTCTTGTAGAA |
| BRD4      | ACAACCCCTCTGCAACAGGAG | AACGTCATGCTCGAGAGGAG |
| β-Actin   | CTACCTCATGAGATCTCACCGA | TTCTCCTTAATGTCAGCAGCAGATT |

#### RT-PCR primers used in this study (mouse).

| Gene name | Forward sequence | Reverse sequence |
|-----------|------------------|------------------|
| IL6       | TTCCATCCAGTTCGCTTCTT | CAGAATTGGCCATTGCACAAC |
| IL8       | CACCCCCCTGCACCTGCTGTC | ATGGCGCTGAGAAACTGTTG |
| CXCL1     | TGCCACCCAAACCCAGACGT | TTGTCAAGAAGCCGCCGTC |
| CXCL6     | CGGTCTGTCTGCCATTAC | CTTAGCTCTCGTTGAAACCAT |
| VEGFC     | CAAGGCTGGGAGAGACGG | TAGAAGGCCAGAGTGGAG |
| INHBA     | TGAAATGACCTAGAGCAGCG | AGCTGGCTGTCCTACAG |
| MMP3      | ATGAAAATAGAAGCTCTCTCGG | GCAGAAGTGCATTACAG |
| AREG      | CCTTTGGTAGACGGTGATG | TGCCTTCAAAAGGTGACT |
| IL1β      | CTCTCCAGCCAAGCTTTCTTG | GCTCTCATGAAGCAGCAGCAG |

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**Supplementary Table 3. ChIP primers used in this study.**

| Primer set name | Forward sequence | Reverse sequence |
|-----------------|------------------|-----------------|
| IL1β upstream   | AACCGAGACACCAGCAAAGT | GCAGACCTGTCAAAGAGGCA |
| IL1β promoter   | GAATCCCAGAGCAGCTGTT | AACAGCGAGGGAAGAACTTG |
| IL1β downstream | GCCTCTCAAAGCTGCTGAA | CCTGCCAGGCCTAGAAATCTG |
| IL6 upstream    | ATTTGGGAGACCAGCTCATTG | CAGCTCGGCTATATCGGTTT |
| IL6 promoter    | GATTCTCTCAAGCCATTCGA | TGAGTCCAGAGGTGGTATGG |
| IL6 downstream  | GAAAGCAGCAAAAGAGGCACT | TGCGACAAGTTGTACCTCA |
| TNFα upstream   | GTGTTATGTCAGTGTTCCAGTCTTT | GCTGGGAGGGAATCTGCTCCTCTTC |
| TNFα promoter   | GGGAACCCCAAGGAAAGAGA | TATAACGCTGGCAAGGGAT |
| TNFα downstream | GGGTTAACCCAGGGAAGAGAGTCTGAGAT | CTGGGAAAGGAGGCACAAAGAAG |
| CXCL1 upstream  | TGGAAACTGAGCTTTTGGTG | TGCTACCCAAACTCCCTAATAG |
| CXCL1 promoter  | CAACGCTCCTTCTCAAAAGA | CTGGGCTGAGATACCACCT |
| CXCL1 downstream| ATTCTGAGGAGCTCAGTAAC | GATCTCATTGGCCACTTTC |
| VEGFC upstream  | CTTCTACCCCCCTGGAAAAC | AGGTCTGTGATGAGCTAAGCTAG |
| VEGFC promoter  | CTCACAGGAACCCCACT | CGCTCTCCTCAAAAGCTACA |
| VEGFC downstream| CACAGGCTACCTCTCCACCTG | ACATTCGACTACCCCTT |

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