

Supplementary Figure

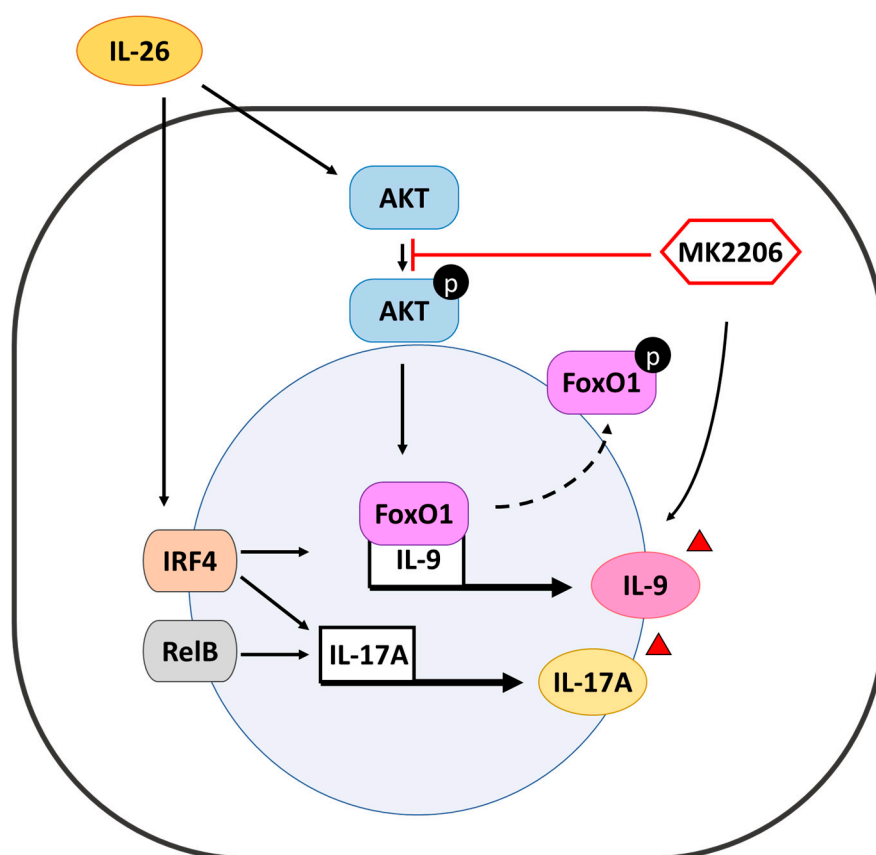


Figure S1. The diagram and mechanisms of IL26 stimulates macrophages. IL-26 stimulation promotes macrophage cells upregulates IL-9 and IL-17A expression by activating IRF4 and AKT-FoxO1 pathway. Blockage of activating AKT inclines the phospho-FoxO1 to functional FoxO1 and increases IL-9 expression.

Supplementary Tables

Table S1. Primary antibodies

| | |
|------------------------------------|--|
| FITC anti-mouse CD80 | 104706, Biolegend, San Diego, CA, USA |
| PE anti-mouse IL-9 | 514104, Biolegend, San Diego, CA, USA |
| Alexa Fluor® 647 anti-mouse IL-17A | 506912, Biolegend, San Diego, CA, USA |
| FITC anti-human CD80 | 305206, Biolegend, San Diego, CA, USA |
| PerCP/Cyanine5.5 anti-human IL-9 | 507610, Biolegend, San Diego, CA, USA |
| PE anti-mouse IL-17A | 506904, Biolegend, San Diego, CA, USA |
| APC anti-human CD14 | 301808, Biolegend, San Diego, CA, USA |
| CD68 Monoclonal Antibody, FITC | 11-0689-41, Thermo Fisher Scientific, Waltham, MA, USA |
| Rabbit anti IL9 Antibody | DF2532, Affinity Biosciences, Jiangsu province, China. |
| Mouse anti IL26/AK155 | MAB1375, R&D Systems, Minneapolis, MN USA |
| Rabbit anti IRF4 | #4948, Cell Signal, Danvers, MA, USA |

| | |
|----------------------------------|--|
| Mouse anti RelB | sc-48366, Santa Cruz, Dallas, TX, USA |
| Mouse anti PU.1 | sc-390659, Santa Cruz, Dallas, TX, USA |
| Rabbit anti mouse ROR γ T | ab207082, Abcam, Cambridge, UK |
| Mouse anti AKT1 | 680302, Biolegend, San Diego, CA, USA |
| Rabbit anti p-AKT1 (S473) | ab81283, Abcam, Cambridge, UK |
| Rabbit anti GAPDH | #5174, Cell Signal, Danvers, MA, USA |

Table S2. Secondary antibodies for western blot

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|---|--|
| Goat Anti-Mouse IgG (H+L) | 115-035-003, Jackson ImmunoResearch, West Grove, PA, USA |
| Goat Anti-Rabbit IgG (H+L) | 111-035-003, Jackson ImmunoResearch, West Grove, PA, USA |
| Alexa Fluor® 594 AffiniPure Donkey Anti-Mouse IgG (H+L) | 715-585-150, Jackson ImmunoResearch, West Grove, PA, USA |

Table S3. Primer for Real Time-PCR

| Target | Sequence |
|--------------------------|--------------------------|
| m_IRF4 Forward | CCTCTTCAAGGCTTGGGCAT |
| m_IRF4 Reverse | TCAGGGGCATAATCCCTCCA |
| m_RelB Forward | GGTCTCCAGGACCACAGAAAT |
| m_RelB Reverse | CTGTGATGACCAGGTACGGC |
| m_PU.1 Forward | AACCAAGTCATCCGATGGAGGG |
| m_PU.1 Reverse | GCCCTGCAATGTCAAGGGAG |
| m_ROR γ T Forward | TACCCTACTGAGGAGGACAGG |
| m_ROR γ T Reverse | TTGACAGCATCTCGGGACA |
| m_GAPDH Forward | ACAGTCTTCTGGGTGGCAGTGAT |
| m_GAPDH Reverse | GTGAGGCCGGTGCTGAGTATGT |
| h_IRF4 Forward | GCCAAGATTCCAGGTGACTC |
| h_IRF4 Reverse | CTGGCTAGCAGAGGTTCTACG |
| h_RelB Forward | GGAAGTAGACATGAATGTGGTGAG |
| h_RelB Reverse | GCTCTGATGTGTTTGTGGATTT |
| h_PU.1 Forward | CCTGAGGGGCTCTGCATTG |
| h_PU.1 Reverse | GAAGTCCCAGTAATGGTCGCT |
| h_ROR γ T Forward | GCACCCCTCACAGGTGATAA |
| h_ROR γ T Reverse | GAGAGCTAGGTGCAGAGCTT |
| h_GAPDH Forward | AGCCACATCGCTCAGACAC |
| h_GAPDH Reverse | GCCCAATACGACCAAATCC |