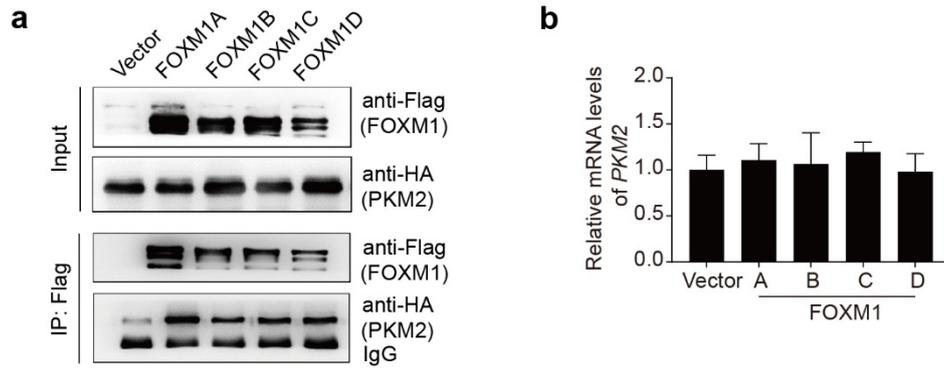


1 **Supplemental Figures**



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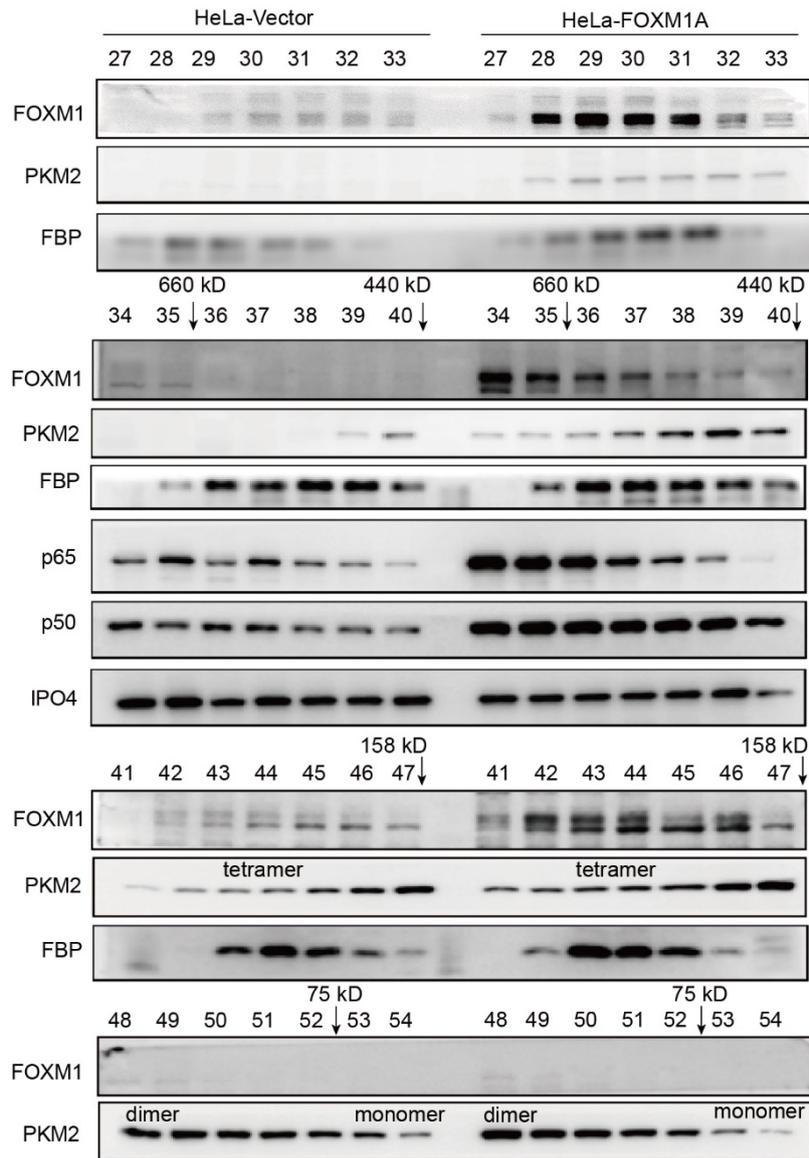
3 Supplemental Figure S1. Identification of the interaction between

4 FOXM1A/B/C/D and PKM2. **a** The interaction between FOXM1A/B/C/D and

5 PKM2. FOXM1A/B/C/D bound to PKM2. **b** The transcriptional level of PKM2 in

6 HeLa over-expressing FOXM1A/B/C/D and Vector.

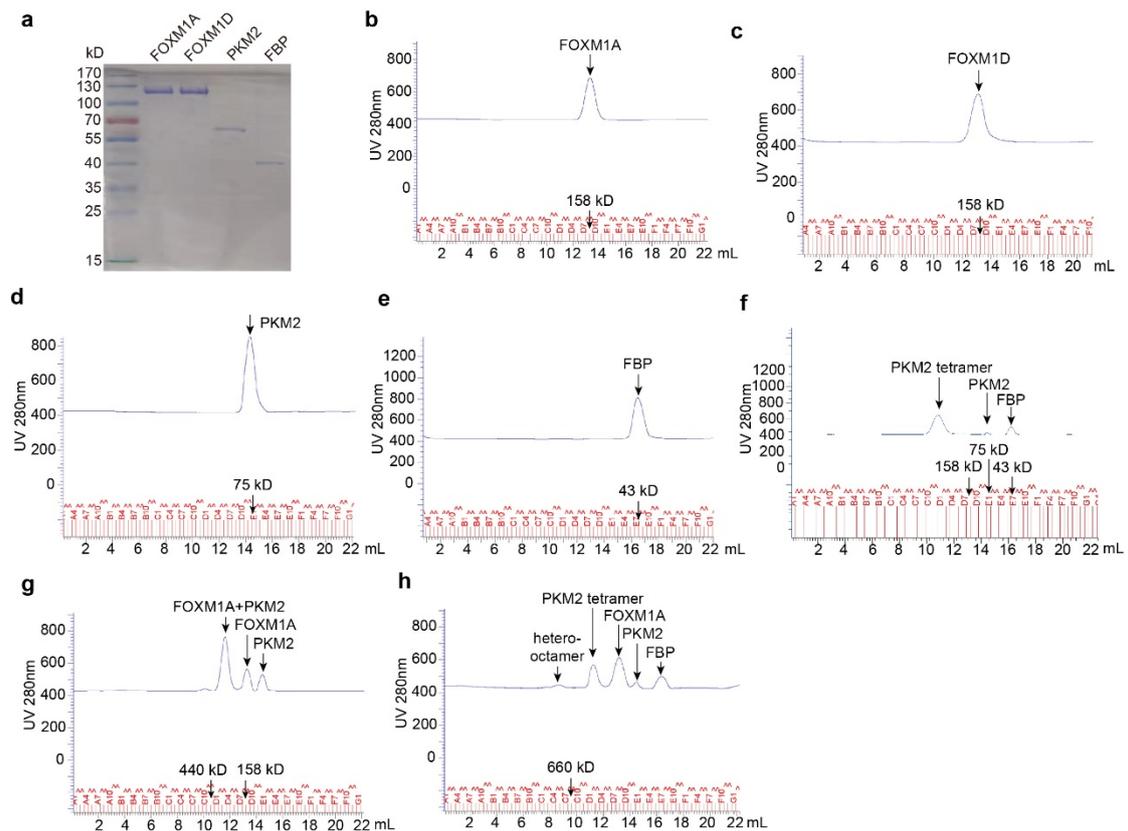
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9 Supplemental Figure S2. Gel filtration to verify the polymer formed by
 10 identification of the interaction between FOXM1A and PKM2. Identification of
 11 the potential complex of FOXM1A and PKM2 in HeLa overexpressing FOXM1A
 12 cells by gel chromatography and immunoblotting. Fraction numbers, elution of
 13 molecular weight markers with arrows, and PKM2 monomer/polymers are
 14 indicated.

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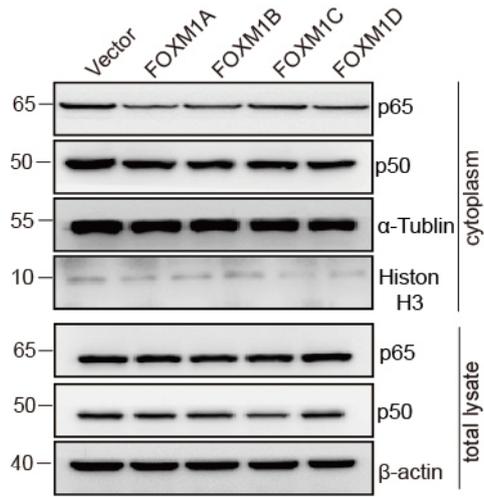
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17 Supplemental Figure S3. Gel filtration to verify the purified protein and polymer
 18 formation. **a** The purity of the indicated proteins was detected by 10% SDS-
 19 PAGE and Coomassie bright blue staining. **b-e** The purified protein of FOXM1A
 20 (**b**), FOXM1D (**c**), PKM2 (**d**), and FBP1 (**e**). Fraction numbers and elution of
 21 molecular weight markers with arrows are indicated. **f-h** The equal weight of
 22 proteins PKM2 and FBP1 (**f**); FOXM1A and PKM2 (**g**); and FOXM1A, PKM2
 23 and FBP1 (**h**) were mixed to form a complex and polymer formation was
 24 detected by gel filtration. Fraction numbers, elution of molecular weight markers
 25 with arrows, and polymers are indicated.

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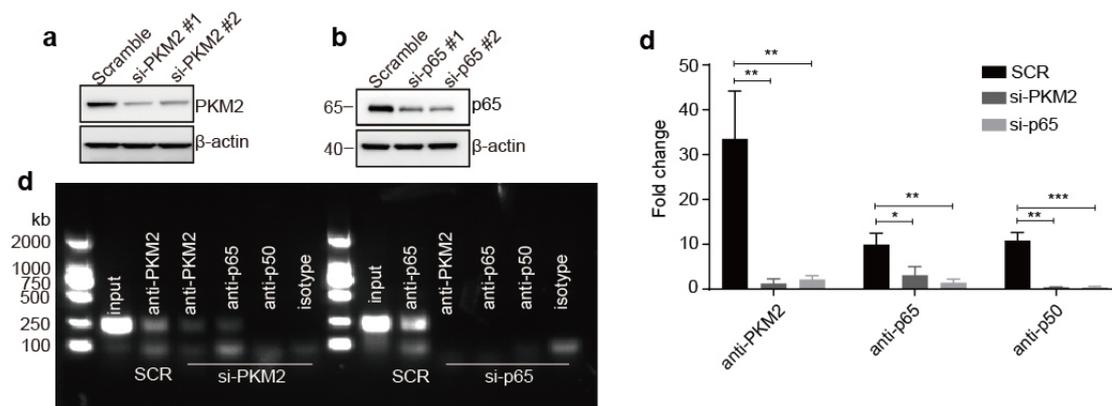


29

30 Supplemental Figure S4. The subcellular detection of NF-κB by immunoblotting

31 in HeLa cells with the ectopic expression of FOXM1A/B/C/D.

32



33

34 Supplemental Figure S5. FOXM1D Upregulates VEGFA Expression Mediated
 35 by PKM2 and NF- κ B. **a-b** Insufficiency of PKM2 and p65 via siRNAs in HeLa-
 36 FOXM1D cells. **c-d** Samples with si-PKM2 #1 and si-p65 #1 were amplified by
 37 the same specific primers (Additional file 3: Supplementary Table S2) using
 38 qRT-PCR in the CHIP assay in si-PKM2 and si-p65 in HeLa-FOXM1D cells. the
 39 isotype was the negative control using IgG antibody. The quantitative data are
 40 also shown (**d**). Data represent the means \pm SD, $n=3$, ** $p < 0.01$, *** $p < 0.001$.