Supplemental Data Section

Detection of JAK1 and its interacting proteins by the method of luminescent oxygen channeling

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Table S1. ***Primers used for gene cloning***

Primers Name	Oligonucleotide Sequence
Jak1-F	5' GCCGCGATCGCCATGCAGTATCTAAATATAAAAG 3'
Jak1-R	5' GCATGCGCATTTTAAAAGTGCTTCAAATCCT 3'
Stat3-F	5' GCCGCGATCGCCCGCCATGGCCCAATGGAATCA 3'
Stat3-R	5' GCATGCGCATCATGGGGGAGGTAGCGCACTC 3'

F, forward; R, reverse

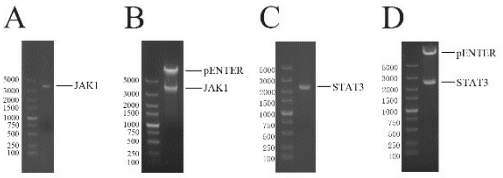

Figure S1. Identification of recombinant plasmids by PCR and enzyme digestion

(A) Restriction map of pENTER-JAK1 PCR product **(B) Restriction enzyme analysis of** pENTER-JAK1 **(C) Restriction map of** pENTER-STAT3 PCR product **(D) Restriction enzyme analysis of** pENTER-STAT3.

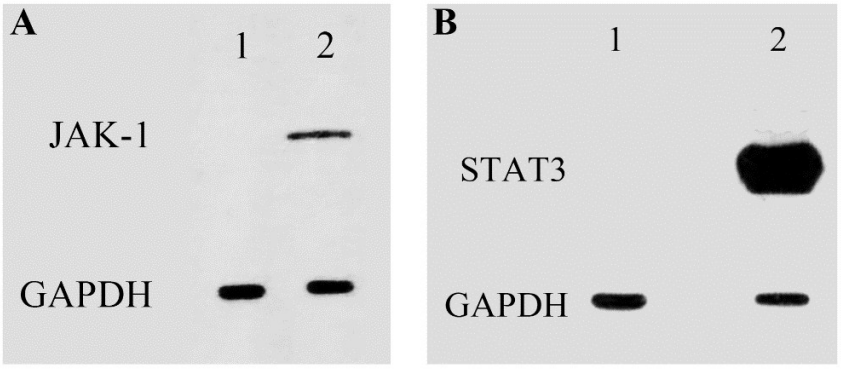

Figure S2. (A) Expression of JAK1 by western blot analysis. Lane 1, blank; lane 2, JAK1. (B) Expression of STAT3 by western blot analysis. Lane 1, blank; lane 2, STAT3. Equal amounts of lysates were analyzed by Western blot using antibodies against JAK1, STAT3, The same blots were stripped and reprobed with GAPDH antibody to verify equal protein loading.

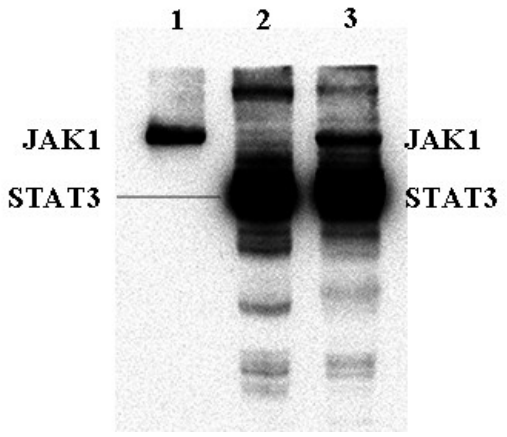

Figure S3. Expression of co-transfected plasmids

Lane 1, JAK1; lane 2, STAT3; lane 3, co-expression of JAK1 and STAT3

Equal amounts of lysates were analyzed by Western blot using antibodies against JAK1, STAT3, The same blots were stripped and reprobed with GAPDH antibody to verify equal protein loading

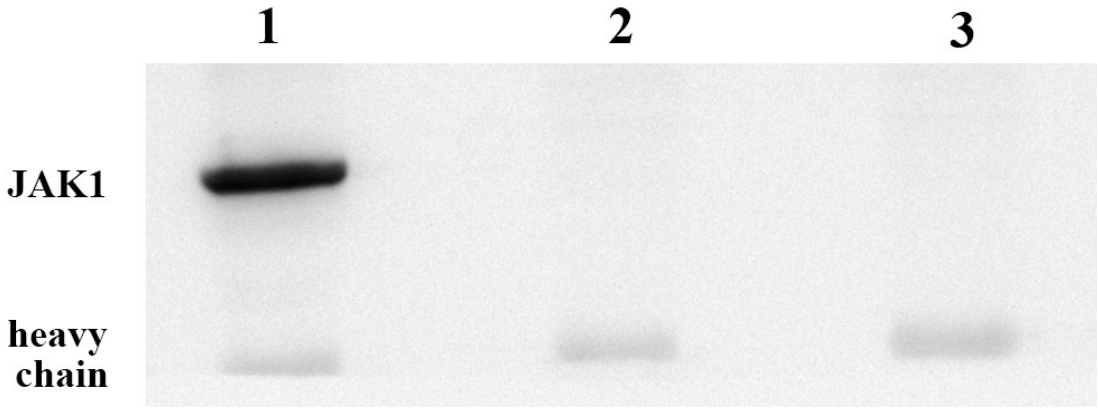

Figure S4. Co-IP western blot analysis

Lane 1, experimental group; lane 2, negative control; lane 3, blank control.