

Appendix 1 The viral vector for overexpression of the human CCL5 gene

The viral vector for overexpression of the human CCL5 gene constructed in this experiment had a vector size of 8974 bp, and its target gene sequence was: ATGAAGGTCTCCGCGGCAGCCCTCGCTGTCATCCTCATTGCTACTGCCCTCTGCGCTCCTGCATCTGCCTCCCCATATTCTCTCGGACACCACACCCTGCTGCTTTGCCTACATTGCCCGCCCACTGCCCCGTGCCACATCAAGGAGTATTTCTACACCAGTGGCAAGTGCTCCAACCCAGCAGTCGTCTTTGTCACCCGAAAGAACCGCCAAGTGTGTGCCAACCCAGAGAAGAAATGGGTTCGGGAGTACATCAACTCTTTGGAGATGAGCTAG.

Table S1 Sequence design of a lentivirus knocking down the CCL5 gene

Name	siRNA	Top strand	Bottom strand
1	CACATCAAGGAGTATTTCTACACCA	GATCCGCACATCAAGGAGTATTTCTACA CCATTCAAGAGATGGTGTAGAAATACTC CTTGATGTGTTTTTTG	AATTCAAAAACACATCAAGGAGTAT TTCTACACCATCTCTTGAATGGTGTA GAAATACTCCTTGATGTGCG
2	CAGCAGTCGTCTTTGTCACCCGAAA	GATCCGCAGCAGTCGTCTTTGTCACCC GAAATTCAAGAGATTTGCGGTGACAAAG ACGACTGCTGTTTTTTG	AATTCAAAAACAGCAGTCGTCTTTG TCACCCGAAATCTCTTGAATTCGG GTGACAAAGACGACTGCTGCG
3	CAGTCGTCTTTGTCACCCGAAAGAA	GATCCGCAGTCGTCTTTGTCACCCGAA AGAATTCAAGAGATTTCTTTCGGGTGACA AAGACGACTGTTTTTTG	AATTCAAAAACAGTCGTCTTTGTCA CCCGAAAGAATCTCTTGAATCTTTC GGGTGACAAAGACGACTGCG

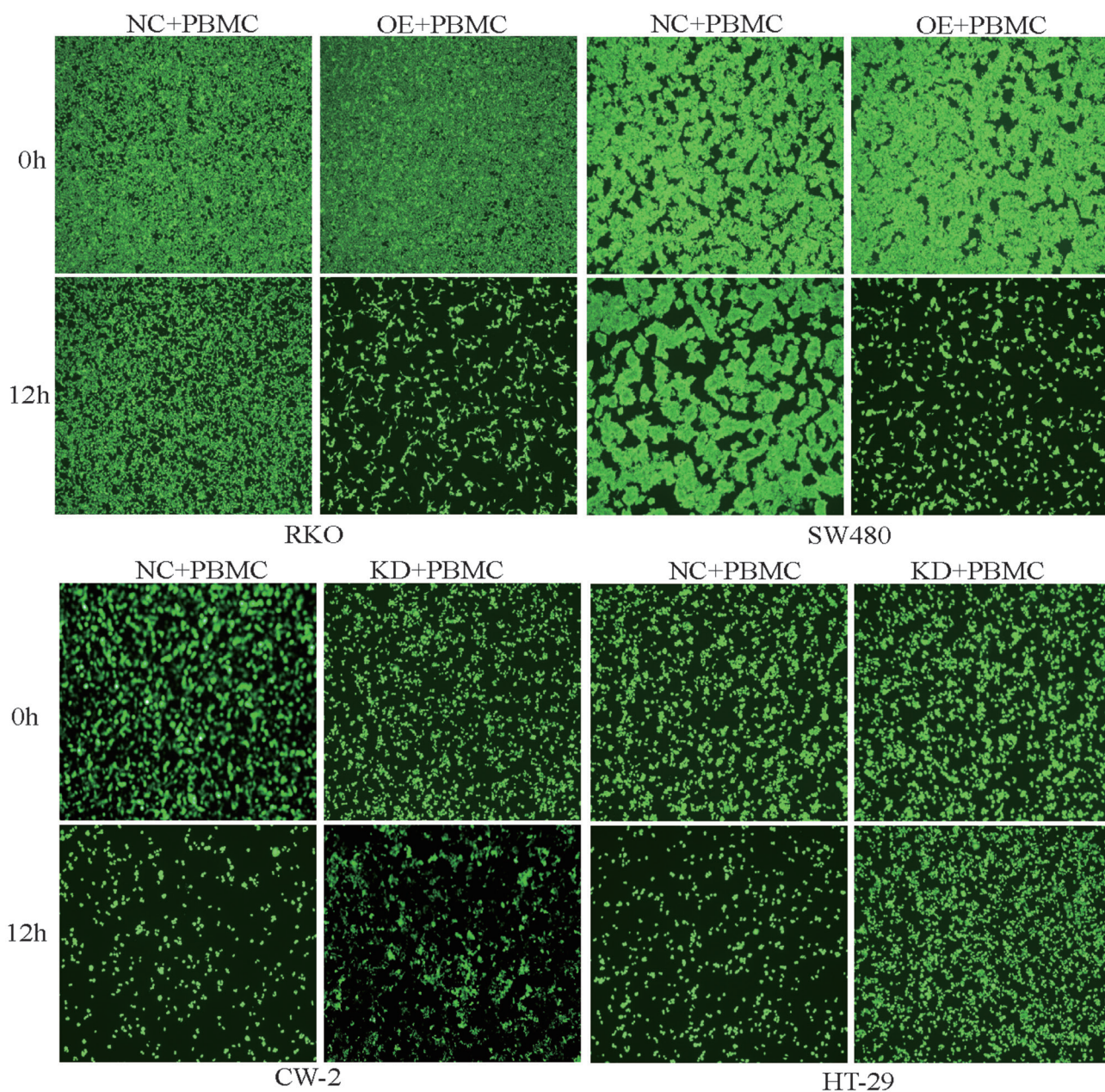


Figure S1 The co-culture results of colon cancer cells (with CCL5 gene overexpression or knockdown) and human peripheral blood lymphocytes showed that CCL5 overexpression significantly activated human peripheral blood lymphocytes and enhanced their tumor-killing effects.