

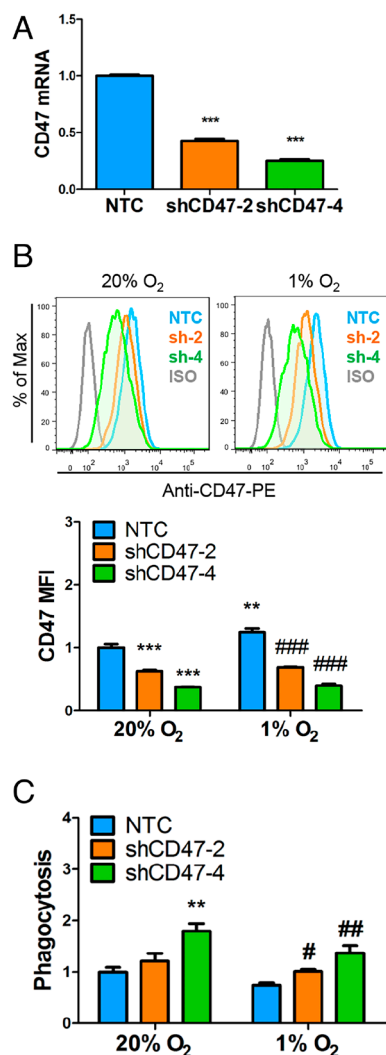
## Correction

## Medical Sciences

Correction for “HIF-1 regulates CD47 expression in breast cancer cells to promote evasion of phagocytosis and maintenance of cancer stem cells,” by Huimin Zhang, Haiquan Lu, Lisha Xiang, John W. Bullen, Chuanzhao Zhang, Debangshu Samanta, Daniele M. Gilkes, Jianjun He, and Gregg L. Semenza, which published October 28, 2015; 10.1073/pnas.1520032112 (*Proc. Natl. Acad. Sci. U.S.A.* **112**, E6215–E6223).

The authors note that Fig. 4 appeared incorrectly. The authors state: “In Fig. 4*B*, we analyzed the expression of CD47 in three subclones of SUM159 breast cancer cells: a subclone expressing a nontargeting control (NTC) short hairpin RNA (shRNA) and two subclones expressing shRNAs targeting CD47 (sh-2 and sh-4). The cells were exposed to 20% or 1% O<sub>2</sub> and analyzed by flow cytometry using an antibody against CD47. This analysis included an isotype control (ISO) antibody, which was used to analyze the NTC subclone only, to demonstrate that the staining observed in the other samples was specifically due to the anti-CD47 antibody. As expected, the signal generated by the ISO antibody was 10- to 100-fold less than that generated by the anti-CD47 antibody. During the construction of Fig. 4*B*, the results for NTC cells exposed to 20% O<sub>2</sub> and stained with the ISO antibody were inadvertently used in both the 20% and 1% O<sub>2</sub> panels. This mistake was missed prior to submission because the ISO antibody signals in the 20% and 1% O<sub>2</sub> conditions were very similar. We regret that this error occurred.”

The corrected figure and its legend appear below. The online version has been corrected.



**Fig. 4.** CD47 deficiency increases the phagocytosis of breast cancer cells. (A) CD47 mRNA levels were analyzed by RT-qPCR in SUM159 subclones expressing either of two different shRNAs targeting CD47 (shCD47) or a nontargeting control shRNA (NTC). Results were normalized to NTC (mean  $\pm$  SEM;  $n = 3$ ). \*\*\* $P < 0.001$  vs. NTC (one-way ANOVA with Bonferroni posttest). (B) CD47 protein expression on the cell surface was determined by flow cytometry of SUM159 subclones exposed to 20% or 1% O<sub>2</sub> for 24 h (Upper). The anti-CD47 median fluorescence intensity (MFI) was determined and normalized to NTC at 20% O<sub>2</sub> (Lower; mean  $\pm$  SEM;  $n = 3$ ). \*\* $P < 0.01$ , \*\*\* $P < 0.001$  vs. NTC at 20% O<sub>2</sub>; ### $P < 0.001$  vs. NTC at 1% O<sub>2</sub> (two-way ANOVA with Bonferroni posttest). (C) SUM159 subclones were exposed to 20% or 1% O<sub>2</sub> for 24 h, stained with CFSE, incubated with bone marrow-derived macrophages for 2 h, stained with F4/80-APC antibody, subjected to flow cytometry, and the percentage of CFSE<sup>+</sup>APC<sup>+</sup> phagocytosed cancer cells was determined and normalized to the NTC subclone at 20% O<sub>2</sub> (mean  $\pm$  SEM;  $n = 3$ ). \*\* $P < 0.01$  vs. NTC at 20% O<sub>2</sub>; # $P < 0.05$ , ## $P < 0.01$  vs. NTC at 1% O<sub>2</sub> (two-way ANOVA with Bonferroni posttest).

This article is distributed under [Creative Commons Attribution-NonCommercial-NoDerivatives License 4.0 \(CC BY-NC-ND\)](https://creativecommons.org/licenses/by-nc-nd/4.0/).

Published September 25, 2024.