

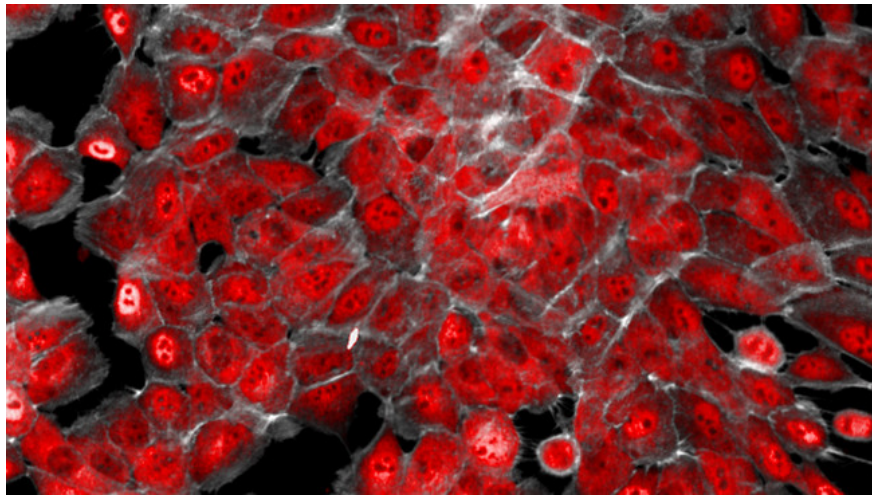
# Researchers found new antibodies to kill cancer cells

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Researchers have discovered a new antibody - originally developed to study multiple sclerosis autoimmune conditions - but it can also boost the ability to fight cancer and reduce the development of tumor.

In a study published in the journal Science Immunology, researchers reported that a new antibody reduced tumor growth in malignant tumors (skin cancer), fibroblast tumors (cancer). brain letters) and colorectal cancer, making it a good candidate for cancer immunotherapy.

These antibodies can precisely target regulatory T cells that in turn release the immune system to kill cancer cells.



T (Treg) cells have previously helped maintain the body's immunity, but it can inadvertently increase the growth of cancer by preventing the body's immune system from detecting and attacking. cancer cell.

Researchers, led by neuroscientist Howard Weiner from Brigham and Women's Hospital in Boston, Massachusetts discovered that they could precisely target Treg cells with antibodies.

The team developed an initial antibody called anti-LAP to investigate the development of multiple sclerosis, but found its function to be linked to anti-cancer.

In this finding, the team used preclinical models to investigate how anti-LAP antibodies work well to prevent the essential mechanisms of Treg cells and restore resistance. Cancer of the immune system.

They found that anti-LAP antibodies act on many cell populations to enhance the immune system's ability to fight cancer including increased activity of certain types of T cells and increased control. of the immune system.

" *In addition to studying its therapeutic effect, we want to describe the mechanism of anti-LAP antibody activation on the immune system,* " said lead author Galina Gabriely, a scientist at Weiner Laboratory.

" *We found that anti-LAP affects many components of the human immune system ,* " Gabriely said.

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