

ABS Viola Tricolor Extract PF

Increase in CD44 Receptor Sites

Abstract:

CD44 is the cellular receptor with specificity for Hyaluronic Acid. The effects of **ABS Viola Tricolor Extract PF** on the increase in the CD44 receptor were determined using the flow cytometry method on human keratinocytes.

Materials and Methods:

Immunolabeling of human keratinocytes was performed after a 72-hour incubation period. The keratinocytes were then incubated for an additional 45 minutes at 4°C with the anti-CD44 immunoglobulin. A second antibody with a luminescent flag (Alexa Fluor-488, Interchim, Franc, Cat. No. A11017) was used to identify the immunolabeled cells. The cells were then sorted using a FA Vantage cell sorter (Becton Dickson, USA). They were passed in front of the argon laser (emission 488nm, adsorption 430 nm) at the rate of 500 cells/second. A quantification of fluorescence was performed on 10 cells.

Results:

Treatment	CD44 Receptor Increase (%)
Control	100
EGF	136
0.5% ABS Viola Tricolor Extract PF	104
1% ABS Viola Tricolor Extract PF	132
2% ABS Viola Tricolor Extract PF	143

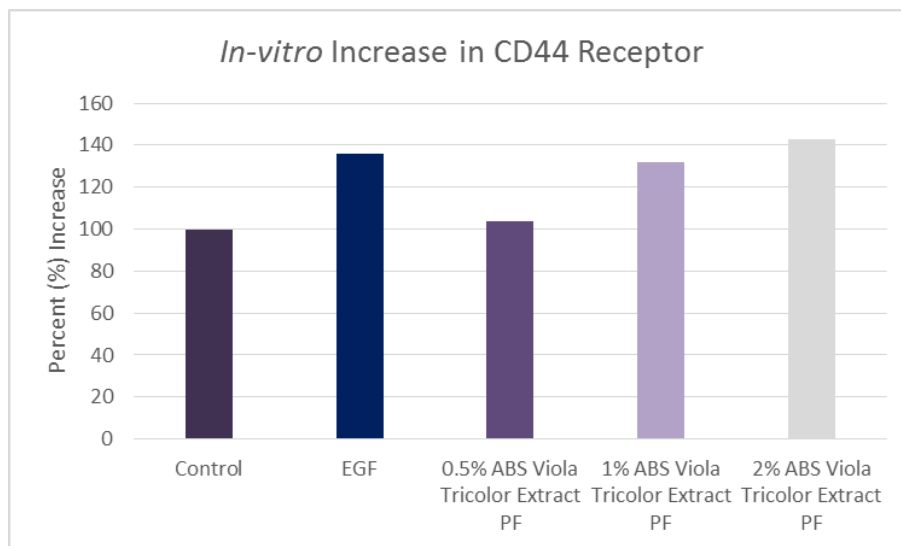


Figure 1: Results of the increase in CD44 following treatment with the test materials.



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info@activeconceptsllc.com • Phone: +1-704-276-7100 • Fax: +1-704-276-7101

Discussion:

A 2% concentration of **ABS Viola Tricolor Extract PF** was observed to increase the proliferation of CD44 receptors by 43% compared to the negative control and by 7% more than the positive control, EGF. The use of **ABS Viola Tricolor Extract PF** as a means to increase the prevalence of the CD44 receptor appears to be dose dependent.