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Fucoxanthin: Antitumor and Cancer Preventive action by different Mechanism

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Abstract : Fucoxanthin is marine carotenoid found in brown seaweed algae. These compound have different types of beneficial health effect anti-inflammatory, anti-obesity, anti-diabetic, anti-carcinogenic. Anti-proliferative and malignant growth prevention impacts of fucoxanthin and fucoxanthinol are intervened through various pathways, counting the caspases, Bcl-2 proteins, MAPK, PI3K/Akt, JAK/STAT, AP-1, GADD45, what's more, a few different constituent part that are associated with cell cycle capture, apoptosis, hostile to angiogenesis or on the other hand restraint of metastasis. In this evaluation, we abridge the anticancer special effects of fucoxanthin through several different mechanisms including Anti-proliferation, induction of apoptosis, cell cycle arrest and anti-angiogenesis, and its Potential role in the cure of cancer.

Keywords: Fucoxanthin, cancer, tumor, marine, malignant.

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