

Alpha 2 macroglobulin

Is elevated in nephrotic syndrome, diabetes, severe burns, and other conditions, while a deficiency is associated with chronic obstructive pulmonary disease.

LRP1 bound A2M found to be associated with an inhibition of tumor cell proliferation, migration, invasion, spheroid formation, and anchorage-independent growth. Transcriptional studies implicated effects on the Wnt/beta-catenin signaling pathway. Notably, LRP1 antibodies could phenocopy the effects of A2M*. Our findings suggest a pathway of tumor suppression in astrocytoma that might be tractable to therapeutic exploitation ¹⁾.

¹⁾

Lindner I, Hemdan NY, Buchold M, Huse K, Bigl M, Oerlecke I, Ricken A, Gaunitz F, Sack U, Naumann A, Hollborn M, Thal D, Gebhardt R, Birkenmeier G. Alpha2-macroglobulin inhibits the malignant properties of astrocytoma cells by impeding beta-catenin signaling. Cancer Res. 2010 Jan 1;70(1):277-87. doi: 10.1158/0008-5472.CAN-09-1462. Erratum in: Cancer Res. 2010 Mar 1;70(5):2140. PubMed PMID: 20048078.

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