

# rs755622

single-nucleotide polymorphism (SNP) rs755622 in promoter of the cytokine macrophage migration inhibitory factor (MIF), is associated with increased leukocyte infiltration in glioblastoma. Furthermore, we identified an association between rs755622 and lactotransferrin expression, which could also be used as a biomarker for immune-infiltrated tumors. These findings demonstrate that a germline SNP in the promoter region of MIF may impact the immune microenvironment and further reveals a link between lactotransferrin and immune activation <sup>1)</sup>.

<sup>1)</sup>

Alban TJ, Grabowski MM, Otvos B, Bayik D, Wang W, Zalavadia AH, Makarav V, Troike KM, McGraw M, Rabljenovic A, Lauko A, Neumann CK, Roversi G, Waite KA, Cioffi G, Patil N, Tran TT, McCortney K, Steffens A, Diaz-Montero CM, Brown JM, Egan KM, Horbinski C, Barnholtz-Sloan JS, Rajappa P, Vogelbaum MA, Bucala R, Chan TA, Ahluwalia MS, Lathia JD. The SNP rs755622 is associated with immune activation in glioblastoma. JCI Insight. 2023 May 30:e160024. doi: 10.1172/jci.insight.160024. Epub ahead of print. PMID: 37252795.

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