

ANTI-MERTK AGONIST ANTIBODY, ANTI-MERTK BISPECIFIC ANTIBODY, AND
USE THEREOF

ABSTRACT

An object of the present invention is to provide an anti-MerTK antibody and an anti-MerTK bispecific antibody that can be used in the prevention or the treatment of diseases related to phagocytosis. The present inventors have obtained a novel anti-MerTK agonist antibody by searching for an anti-MerTK agonist antibody that binds to MerTK and activates downstream signals. This anti-MerTK agonist antibody activated the phagocytic clearance function of RPE cells by activating downstream signals via MerTK expressed on RPE cell surface. Furthermore, an anti-MerTK-anti-misfolded protein bispecific antibody prepared on the basis of the sequence of the anti-MerTK agonist antibody activated the phagocytic clearance function of macrophages for a misfolded protein. Thus, the anti-MerTK antibody or the anti-MerTK-anti-misfolded protein bispecific antibody is expected to be used in the prevention or the treatment of diseases related to phagocytosis.