

Monoclonal antibody against human α 1-antichymotrypsin

Product No. ADG0036L

Description

α 1-antichymotrypsin is an alpha globulin glycoprotein that is a member of the serpin superfamily.

Alpha 1-antichymotrypsin inhibits the activity of certain enzymes called proteases, such as cathepsin G that is found in neutrophils, and chymases found in mast cells, by cleaving them into a different shape or conformation.

This protein is produced in the liver, and is an acute phase protein that is induced during inflammation.

Deficiency of this protein has been associated with liver disease. Mutations have been identified in patients with Parkinson disease and chronic obstructive pulmonary disease.

Alpha 1-antichymotrypsin is also associated with the pathogenesis of Alzheimer's disease as it enhances the formation of amyloid-fibrils in this disease.

Preparation

The monoclonal antibody ADG0036L (clone HD-Acht 1 (2-1)) is a murine monoclonal antibody, subclass IgG₁ recognizing the human α 1-antichymotrypsin. Mice were immunized with purified native human α 1-antichymotrypsin. The antibody has been purified from cell culture supernatant using Protein G affinity chromatography.

Presentation

Screw capped vial containing 1 mg of purified antibody in PBS pH 7.4. The IgG concentration is given on the vial label. Spin the vial briefly before opening.

Storage and Stability

Store the antibody at 2°-8°C. For long-term storage the antibody should be aliquoted and stored at -20°C or colder. It is recommended to avoid freeze-thaw cycles.

Applications

- ELISA
- Western-Blot

Reference

Alpha 1-antichymotrypsin. Kalsheker N, *Int J Biochem Cell Biol.* 1996.28 (9): 961-964.

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