

Monoclonal antibody against human Cathepsin G Product No. ADG0032L

Description

Cathepsin G is one of the three serine proteases of the chymotrypsin family that are stored in the azurophil granules, and also a member of the peptidase S1 protein family. Cathepsin G plays an important role in eliminating intracellular pathogens and breaking down tissues at inflammatory sites, as well as in anti-inflammatory response.

Other functions of cathepsin G have been reported, including cleavage of receptors, conversion of angiotensin I to angiotensin II, platelet activation, and induction of airway submucosal gland secretion.

Cathepsin G has been reported to play an important role in a variety of diseases, including rheumatoid arthritis, coronary artery disease, periodontitis, ischemic reperfusion injury, and bone metastasis. It is also implicated in a variety of infectious inflammatory diseases, including chronic obstructive pulmonary disease, acute respiratory distress syndrome, and cystic fibrosis.

Preparation

The monoclonal antibody ADG0032L (clone HD-CG 8.1) is a murine monoclonal antibody, subclass IgG₁ recognizing the human cathepsin G. Mice were immunized with purified native cathepsin G. 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

- Immunocytology
- Immunohistochemistry

Reference

[Acute febrile neutrophilic dermatosis (Sweet syndrome). Case report and immunohistologic study of neutrophil-associated proteolytic enzymes and their inhibitors] [Article in German]. Metz R et al. Hautarzt. 1990 Sep;41(9):485-489.

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