

## Monoclonal antibody against human Cathepsin G

### Product No. ADG0033L

#### 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 ADG0033L (clone HD-CG 10.1) is a murine monoclonal antibody, subclass IgG<sub>1</sub> 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 + 0.01% ProClin300. 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
- Immunocytology
- Immunohistochemistry

#### Warnings and Precautions

**Contains:** Mixture of: 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1) and Modified alkyl carboxylate (ProClin® 300)

#### Hazard pictograms



Warning

#### Signal word

#### Hazard statements

H317 - May cause an allergic skin reaction.

#### Precautionary statements

P280 - Wear protective gloves.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before reuse.

P501 - Dispose of contents/container in accordance with local/regional/ national/international regulations.

#### 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.

#### Distributed by:

**LOXO** GMBH

IMMUNOLOGIE • MOLEKULARBIOLOGIE  
BIOCHEMIE • PRODUKTE UND SYSTEME

Gerhart-Hauptmann-Str. 48  
69221 Dossenheim

Tel +49 6221 868023

Fax +49 6221 8680255

www.loxo.de - info@loxo.de

#### Hinweis/Note:

Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.  
The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.

For research use only!

ADG0033L©30092022