

CHIT1 Antibody

Purified Mouse Monoclonal Antibody Catalog # A01251a

Specification

CHIT1 Antibody - Product Information

Application WB, E
Primary Accession Q13231
Reactivity Human
Host Mouse
Clonality Monoclonal
Isotype IgG1

Description

CHIT1:chitinase 1 (chitotriosidase). Chitotriosidase is a 50 kDa secreted glycoprotein that belongs to glycohydrolase family # 18. It is secreted by activated human macrophages and is markedly elevated in plasma of Gaucher disease patients. The expression of chitotriosidase occurs only at a late stage of differentiation of monocytes to activated macrophages in culture. Human macrophages can synthesize a functional chitotriosidase, a highly conserved enzyme with a strongly regulated expression. This enzyme may play a role in the degradation of chitin-containing pathogens.

Immunogen

Formulation

Ascitic fluid containing 0.03% sodium azide.

CHIT1 Antibody - Additional Information

Gene ID 1118

Other Names

Chitotriosidase-1, 3.2.1.14, Chitinase-1, CHIT1

Dilution

WB~~1/500 - 1/2000

 $E \sim N/A$

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CHIT1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CHIT1 Antibody - Protein Information



Name CHIT1

Function

Degrades chitin, chitotriose and chitobiose. May participate in the defense against nematodes and other pathogens. Isoform 3 has no enzymatic activity.

Cellular Location

Secreted. Lysosome. Note=A small proportion is lysosomal

Tissue Location

Detected in spleen. Secreted by cultured macrophages.

CHIT1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CHIT1 Antibody - Images

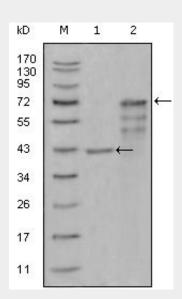


Figure 1: Western blot analysis using CHIT1 mouse mAb against truncated Trx-CHIT1 recombinant protein (1) and truncated CHIT1 (aa22-466)-hlgGFc transfected CHO-K1 cell lysate (2).

CHIT1 Antibody - References

1. Sarcoidosis Vasc Diffuse Lung Dis. 2007 Mar;24(1):59-64. 2. Clin Biochem. 2007 Mar;40(5-6):365-9.