

Datasheet for ABIN969053

**anti-Chitotriosidase 1 antibody (AA 22-137)**[Go to Product page](#)**1** Image**2** Publications

## Overview

Quantity:	100 µL
Target:	Chitotriosidase 1 (CHIT1)
Binding Specificity:	AA 22-137
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA

## Product Details

Immunogen:	Purified recombinant fragment of CHIT1 (aa22-137) expressed in E. coli.
Clone:	1D9G2
Isotype:	IgG1
Purification:	purified

## Target Details

Target:	Chitotriosidase 1 (CHIT1)
Alternative Name:	CHIT1 ( <a href="#">CHIT1 Products</a> )
Background:	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

## Target Details

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.

Aliases: Chitotriosidase, CHI3, CHIT, FLJ00314, MGC125322, CHIT1

Gene ID: 1118

HGNC: 1118

## Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C/-20 °C

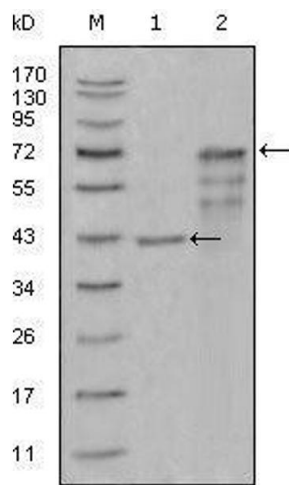
Storage Comment: 4°C, -20°C for long term storage

## Publications

Product cited in: Leitinger, Kwan: "The discoidin domain receptor DDR2 is a receptor for type X collagen." in: **Matrix biology : journal of the International Society for Matrix Biology**, Vol. 25, Issue 6, pp. 355-64, (2006) ([PubMed](#)).

Shyu, Chao, Wang, Kuan: "Regulation of discoidin domain receptor 2 by cyclic mechanical stretch in cultured rat vascular smooth muscle cells." in: **Hypertension**, Vol. 46, Issue 3, pp. 614-21, (2005) ([PubMed](#)).

Neale, Kenny, Gershwin: "Cloning and sequencing of protein kinase cDNA from harbor seal (Phoca vitulina) lymphocytes." in: **Clinical & developmental immunology**, Vol. 11, Issue 2, pp. 157-63, (2004) ([PubMed](#)).



Western Blotting

**Image 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).