

CHIT1 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1251a

Product Information

Application	WB, E
Primary Accession	Q13231
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1D9G2; 1D9G4; 2B4G3
Isotype	IgG1
Calculated MW	51681
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	Purified recombinant fragment of CHIT1 (aa22-137) expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	1118
Other Names	Chitotriosidase-1, 3.2.1.14, Chitinase-1, CHIT1
Dilution	WB~~1/500 - 1/2000 E~~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.

Protein Information

Name	CHIT1
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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.

References

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

Images

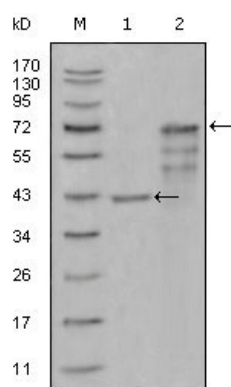


Figure 1: Western blot analysis using CHIT1 mouse mAb against truncated Trx-CHIT1 recombinant protein (1) and truncated CHIT1 (aa22-466)-hIgGfc transfected CHO-K1 cell lysate (2).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.