



Rabbit Anti-CHIT1 antibody

SL13904R

Product Name:	CHIT1
Chinese Name:	几丁质酶1抗体
Alias:	CHI3; CHIT; CHIT1; CHIT1_HUMAN; CHITD; Chitinase 1; Chitinase 1 (chitotriosidase); Chitinase-1; Chitotriosidase; Chitotriosidase-1; EC 3.2.1.14; FLJ00314; MGC125322; Plasma methylumbelliferyl tetra N acetylchitotetraoside hydrolase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	49kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CHIT1:201-300/466
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Chitotriosidase 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. Several alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jan 2012]

Function:

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

Subcellular Location:

Secreted. Lysosome. A small proportion is lysosomal.

Tissue Specificity:

Detected in spleen. Secreted by cultured macrophages.

Similarity:

Belongs to the glycosyl hydrolase 18 family. Chitinase class II subfamily. Contains 1 chitin-binding type-2 domain.

SWISS:

Q13231

Gene ID:

1118

Database links:

[Entrez Gene: 1118](#) Human

[Omim: 600031](#) Human

[SwissProt: Q13231](#) Human

[Unigene: 201688](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.