

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Chitinase 3-like 1/YKL-40 in direct ELISAs and Western blots. In direct ELISAs, approximately 15% cross-reactivity with recombinant mouse Chitinase 3-like 1/YKL-40 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Chitinase 3-like 1/YKL-40 Tyr22-Thr383 Accession # P36222
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

CHI3L1, also known as HCgp39 (human cartilage glycoprotein 39) and YKL40, is a secreted glycoprotein belonging to the family of chitinase-like lectins. These proteins are structurally related to the glycosylhydrolase family 18, but lack enzymatic activity. CHI3L1 is expressed by chondrocytes, synovial cells, macrophages and neutrophils. It has been found to play a role in down-regulating cytokine-induced inflammatory responses. Human CHI3L1 shares 73%, 80%, 83% and 86% amino acid sequence identity with mouse, rat, bovine and porcine CHI3L1, respectively.

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