



## *Biotinylated Anti-human Chitinase 3-like 2 Antibody*

### ORDERING INFORMATION

**Catalog Number:** BAF5116

**Lot Number:** CBPF01

**Size:** 50 µg

**Formulation:** 0.2 µm filtered solution in PBS with BSA

**Storage:** -20° C

**Reconstitution:** sterile 0.1% BSA in TBS

**Specificity:** human CHI3L2

**Immunogen:** NS0-derived rhCHI3L2

**Ig Type:** sheep IgG

**Application:** Western blot

### ***Background***

Chitinase-3-like 2 (CHI3L2; also chondrocyte protein 39 and YKL-39) is a 39 kDa glycoprotein member of the glycosyl hydrolase 18 family. It is secreted by synovial fibroblasts and chondrocytes, particularly in osteoarthritis, and may contribute to extracellular matrix stability. CHI3L2 has no chitotriosidase activity, but is likely to bind some type of glycan. The human CHI3L2 precursor is 390 amino acids (aa) in length. It contains a 26 aa signal sequence and a 364 aa mature region. There are two potential alternate start sites at Met24 and Met80; a third potential isoform shows a deletion of aa 15 - 24. Over aa 27 - 390, human CHI3L2 shares 89% aa identity with bovine CHI3L2. No rodent CHI3L2 has been reported.

### ***Preparation***

Produced in sheep immunized with purified, NS0-derived, recombinant human Chitinase 3-like 2 (rhCHI3L2; aa 27 - 390; Accession # Q15782). Human CHI3L2 specific IgG was purified by human CHI3L2 affinity chromatography and then biotinylated.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

### ***Reconstitution***

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

### ***Storage***

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### ***Specificity***

This antibody has been selected for use as a detection antibody in human CHI3L2 Western blots.

### ***Application***

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human CHI3L2. The detection limit for rhCHI3L2 is approximately 2 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 5% cross-reactivity with rhCHIT-1.

**Optimal dilutions should be determined by each laboratory for each application.**