

## Monoclonal Antibodies:

### Mouse Anti-Human YKL-40

For **Research Use Only**. Not for use in diagnostic procedures

#### Background

YKL-40, a member of the mammalian chitinase like protein class, is a 40 kDA heparin binding glycoprotein.<sup>1-3</sup> It shares amino acid sequence homology to non-mammalian chitinases but demonstrates no chitinase activity. The name YKL-40 is derived from the protein's molecular weight and three N-terminus amino acids (tyrosine, lysine and leucine).<sup>3</sup>

The biological function of YKL-40 remains largely unknown and is a field of extensive scientific debate. YKL-40 has been shown to be a potent growth factor for connective tissue cells<sup>8-9</sup> and a potent migration factor for endothelial cells.<sup>5</sup> Several research studies have demonstrated substantial levels of YKL-40 in environments with inflammation or where remodeling of the extracellular matrix (ECM) occurs,<sup>6-10</sup> including various cancers, active rheumatoid arthritis, inflammatory bowel diseases, severe bacterial infections, and liver fibrosis.

#### Applications

Please contact Quidel Technical Support for application specific information.

EIA <sup>5</sup>	RIA	WB <sup>6</sup>	IHC	FACS
<20 ng/mL	N/T	>1:100	N/R	N/T

N/T = Not tested  
N/R = Not recommended

#### Specifications

- Concentration: ≥1 mg/mL
- Purity: >95% by SDS PAGE
- Volume/Vial: 100 µL
- Storage: Short term (30 days) 4°C  
Long term at -70°C
- Buffer: 50 mM Phosphate  
Buffered Saline
- Isotype: IgG1k

#### References:

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