

Store at
-20C
#47066**YKL-40 (E2L1M) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, W-S, IHC-P, IF-IC	H	Endogenous	30-40	Rabbit IgG	#P36222	1116

Product Usage Information**Application**

Western Blotting
Simple Western™
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:10 - 1:50
1:800
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #44073.

Specificity/Sensitivity

YKL-40 (E2L1M) Rabbit mAb recognizes endogenous levels of total YKL-40 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human YKL-40 protein.

Background

YKL-40, also known as Chitinase-3-like protein 1 (CHI3L1), is a secreted glycoprotein encoded by the *CHI3L1* gene (1,2). Unlike other members of the chitinase-like protein family, YKL-40 is not an active chitinase. It is produced by activated macrophages, chondrocytes, neutrophils, and synovial cells. It is a pro-inflammatory molecule that contributes to the progression of many inflammatory diseases, including fibrosis, neurodegenerative disease, breast, lung, prostate, liver, bladder, colon, and other types of cancers (3,4). Levels of YKL-40 in serum and plasma in patients with various types of tumors have been reported to predict poor prognosis, and in some clinical assays YKL-40 is being used as a predictive biomarker of cancer outcome (4).

Background References

- Hakala, B.E. et al. (1993) *J Biol Chem* 268, 25803-10.
- Rehli, M. et al. (1997) *Genomics* 43, 221-5.
- Baldacci, F. et al. (2017) *Expert Rev Proteomics* 14, 285-299.
- Kzhyshkowska, J. et al. (2016) *Biol Chem* 397, 231-47.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **W-S:** Simple Western™ **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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