

Anti-LTC4 [mAbLTC] Standard Size Ab00483-10.0

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Kappa

Clone Number: mAbLTC

Alternative Name(s) of Target: Leukotriene C4

UniProt Accession Number of Target Protein:

Published Application(s): RIA, Block, ELISA

Published Species Reactivity: Species independent

Immunogen: Human LTC4.

Specificity: The antibody binds to LTC4 with an EC50 of 0.11 µM.

Application Notes: The antibody binds specifically to LTC4, a member of eicosanoid inflammatory mediators synthesised from arachidonic acid by arachidonate 5-lipoxygenase. LTC4 is a cysteinyl-leukotriene, and acts at the cell-surface receptors CysLT1 and CysLT2, which are both G-protein coupled receptors (GPCRs) involved in human bronchial asthma. LTC4 is responsible for increasing airway responsiveness to histamine in asthmatic patients, and antibodies that block this activity can be used in the treatment of inflammatory diseases such as asthma, and to inhibit platelet aggregation.

Antibody First Published in: Matsumoto S1, Hayashi Y, Kinoshita I, Ikata T, Yamamoto S.. Immunoaffinity purification of prostaglandin E2 and leukotriene C4 prior to radioimmunoassay: application to human synovial fluid. Ann Clin Biochem. 1993 Jan;30 (Pt 1):60-8. [PMID:20079714](#)

Note on publication: Describes the synthesis of a monoclonal antibody specific for LTC4 and its use in immunoassays to detect the amount of LTC4 in synovial fluid from patients with rheumatoid arthritis, osteoarthritis and other joint diseases.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration:

1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.