

## Human Leukotriene C4 (LT-C4) ELISA Kit | LT-C4 elisa kit

Human Leukotriene C4 (LT-C4) ELISA Kit

CATALOG #  
**AAA331914**

REACTIVITY  
**Human**

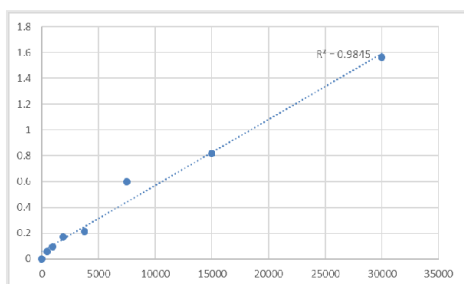
### PRODUCT SYNONYMS

Leukotriene C4 (LT-C4); Human Leukotriene C4 (LT-C4) ELISA Kit; LT-C4 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Human Leukotriene C4 (LT-C4) ELISA Kit has high sensitivity and excellent specificity for detection of Human LT-C4. No significant cross-reactivity or interference between Human LT-C4 and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



**Standard Curve (Sample)**

Fig.1. Human Leukotriene C4 (LT-C4) Standard Curve.

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for LT-C4 elisa kit | <p>Description: This Human Leukotriene C4 (LT-C4) ELISA Kit employs a two-site sandwich ELISA to quantitate LT-C4 in samples. An antibody specific for LT-C4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any LT-C4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LT-C4 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LT-C4 bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: Leukotriene C4 is a leukotriene. Leukotrienes (LTs) are synthesized from membrane derived arachidonic acid. Downstream of 5-lipoxygenase in the arachidonic acid cascade, leukotriene C4 synthase (LTC4S)catalyses the conjugation of leukotriene A4 (LTA4)with reduced glutathione to form LTC4, then LTC4 convert to active metabolites LTD4 and LTE4. LTC4,LTD4 and LTE4, which are called cysteinyl leukotrienes (CysLTs), are potent proinflammatory mediators of asthma. There is a polymorphism of adenine (A) to cytosine (C)transversion at -444 locus in the promoter region of the LTC4S gene, A-444C.1 This allelic variant results in an extra recognition site for the Ap-2 transcription factor and is associated with an increased LTC4S transcription rate. 2 Some studies in other countries suggest that LTC4S A-444C polymorphism is associated with asthmatic severity and clinical response to leukotriene receptor antagonist.3-8</p> |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/leukotriene-c4-lt-c4/331914>