



# SZABO SCANDIC

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# Product Information



## BLT<sub>2</sub> Receptor Blocking Peptide

Item No. 320124

Leukotriene B<sub>4</sub> (LTB<sub>4</sub>) promotes a number of leukocyte functions including aggregation, stimulation of ion fluxes, superoxide anion production, chemotaxis, and chemokinesis. Two G-protein coupled receptors, BLT<sub>1</sub> and BLT<sub>2</sub>, which mediate the actions of LTB<sub>4</sub> have been cloned and characterized.<sup>1-4</sup> The BLT<sub>1</sub> receptor is expressed in leukocytes, U937 cells, and to a much lower extent in spleen and thymus.<sup>1</sup> The human BLT<sub>2</sub> receptor is a 358 amino acid protein with approximately 40% homology to BLT<sub>1</sub> at the amino acid level.<sup>2-4</sup> The BLT<sub>2</sub> receptor is more broadly expressed than the BLT<sub>1</sub> receptor, with highest levels observed in liver, spleen, ovary, intestine, and peripheral blood leukocytes.<sup>2-4</sup> Activation of the BLT<sub>2</sub> receptor by LTB<sub>4</sub> leads to Ca<sup>2+</sup> mobilization as well as decreases in cAMP, indicating interaction of the receptor with G<sub>q</sub> and G<sub>i</sub> classes of G-proteins.<sup>2</sup>

### Laboratory Procedures

This vial contains 200 µg of lyophilized peptide derived from the human BLT<sub>2</sub> receptor sequence (amino acids 325-338; MELRTTPQLKVVGGQ).<sup>2-4</sup> This peptide was used as an antigen for production of the BLT<sub>2</sub> Receptor Polyclonal Antibody (Item No. 120124) and can be used in conjunction with this antibody to block protein-antibody complex formation during immunochemical analysis for the BLT<sub>2</sub> receptor.

Reconstitute the lyophilized peptide with 200 µl of PBS or distilled water. Store this peptide solution at -20°C. It will be stable for at least two years. To block antibody/protein complex formation, the following procedure is recommended:

1. Mix the BLT<sub>2</sub> Receptor Polyclonal Antibody (Item No. 120124) and blocking peptide together in a 1:5 (v/v) ratio in a microfuge tube. For example, mix 20 µl of antibody and 100 µl of peptide.\*
2. Incubate for one hour at room temperature with occasional mixing prior to further dilution and application of the mixture to the immunoblot.
3. Dilute the mixture to the final working antibody concentration and apply to the slide or membrane as usual.

\*This is a recommended mixture. The minimum amount of peptide needed for complete blocking has not been precisely determined and may vary depending on the sample being analyzed. The amount of peptide required may need to be increased if sufficient blocking does not occur.

### References

1. Yokomizo, T., Izumi, T., Chang, K., *et al.* A G-protein-coupled receptor for leukotriene B<sub>4</sub> that mediates chemotaxis. *Nature* **387**, 620-624 (1997).
2. Wang, S., Gustafson, E., Pang, L., *et al.* A novel hepatointestinal leukotriene B<sub>4</sub> receptor. *J. Biol. Chem.* **275**, 40686-40694 (2000).
3. Yokomizo, T., Kato, K., Terawaki, K., *et al.* A second leukotriene B<sub>4</sub> receptor, BLT<sub>2</sub>: A new therapeutic target in inflammation and immunological disorders. *J. Exp. Med.* **193**, 421-431 (2000).
4. Castanho, M.A.R.B., Coutinho, A., and Prieto, M.J.E. Absorption and fluorescence spectra of polyene antibiotics in the presence of cholesterol. *J. Biol. Chem.* **267**, 204-209 (1992).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/320124](http://www.caymanchem.com/catalog/320124)

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