# $LTB_4$ Receptor ($BLT_2$) Polyclonal Antibody

## Product Specifications

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|---|---|
| **Catalog Number:** | 905-794-100 |
| **Host:** | Rabbit |
| **Species Reactivity:** | Rat (predicted to react with human and mouse based on epitope sequence identity)<br>Other species not tested |
| **Applications:** | **WB**: Yes<br>Other applications not tested.<br>*The optimal dilution for a specific application must be determined by the investigator.* |
| **Predicted M.W.:** | Predicted ~38 kDa. Higher m.w. species (~50 kDa) and intermediates also observed which reflect post-translational modification of the receptor[8]. |
| **Concentration:** | See product label |
| **Purification:** | Peptide Affinity |
| **Format:** | PBS, 50% glycerol, 0.01% sodium azide |
| **Storage:** | Store at -20˚C<br>*Shipping conditions may differ from the recommended storage temperature.* |
| **Immunogen:** | Synthetic peptide derived from sequence near the amino-terminus of rat $LTB_4$ Receptor ($BLT_2$) |
| **Related Products:** | |
| SAB-300 | Goat anti-Rabbit IgG Polyclonal Antibody, HRP Conjugate |
| 900-068 | $LTB_4$ EIA Kit |
| 905-037 | $LTB_4$ Polyclonal Antibody |
| 905-793-100 | $LTB_4$ Receptor ($BLT_1$) Rabbit Polyclonal Antibody |

## Background:

Leukotrienes are metabolic products of arachidonic acid formed by the action of 5-lipoxygenase (5-LO), with the principal products being leukotrienes C4 ($LTC_4$) and B4 ($LTB_4$)[1,2]. $LTB_4$ is a dihydroxy-leukotriene produced in a variety of cells including eosinophils, neutrophils, platelets, and vascular cells, and is a potent leukocyte chemoattractant known to regulate leukocyte activation, cytokine secretion, inflammatory gene transcription, and IgE synthesis. As such, $LTB_4$ has been implicated in a number of disease pathologies including atherosclerosis, asthma, psoriasis, and inflammatory bowel disease[3]. The many actions of $LTB_4$ are associated with two identified mammalian receptors, $BLT_1$ and $BLT_2$[1,4,5]. $BLT_1$ is a high-affinity $LTB_4$ receptor expressed on peripheral leukocytes, while $BLT_2$ is a more ubiquitously expressed low affinity $LTB_4$ receptor whose function is not well understood. The BLT1 receptor is transiently expressed by antigen-primed T-cells in humans, and its expression is known to play a critical role in collagen-induced arthritis in mice[6,7].

References:

1. Brink, C., *et al*. (2001) Pharmacol Rev. **55**, 195-227.
2. Yokomizo, T., *et al*. (2001) Arch Biochem Biophys. **385**, 231-241.
3. Luster, A.D. and Tager, A.M. (2004) Nat Rev Immunol. **4**, 711-724.
4. Yokomizo, T., *et al*. (1997) Nature **387**, 620-624.
5. Yokomizo, T., *et al*. (2000) J Exp Med. **192**, 421-431.
6. Shao, W.-H., *et al*. (2006) J Immunol. **176**, 6254-6261.
7. Islam, S.A., *et al*. (2006) Blood **107**, 444-453.
8. Damian, M., *et al.* (2008) J Biol Chem. **283**, 21084-21092.

Visit the Scientific Resources section of our website for ELISA, IHC, and WB protocols.

Generally reagents are good for one year from the date of receipt, except for conjugates which are good for six months and reagents with an expiration date indicated on the label or oth er supporting document.

Assay Designs makes every effort to provide a consistent source of high quality polyclonal antibodies. However, due to variations inherent in this technology, investigators are urged to purchase sufficient quantities of a specific l ot number if an identical antibody is required throughout a study.

**(OVER)**



5777 Hines Drive • Ann Arbor, MI • 48108 | Tel: 800-833-8651 or 800-668-6113 | Fax: 734-668-2793
www.assaydesigns.com | orders@assaydesigns.com | technical@assaydesigns.com

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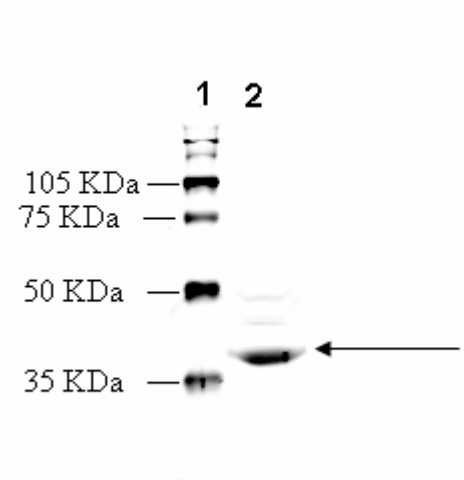


**Western Blot Analysis:** MW marker (1) and 50 µg rat heart membrane extract (2) probed with $LTB_4$ Receptor ($BLT_2$) Polyclonal Antibody at 2.5 µg/mL.


5777 Hines Drive • Ann Arbor, MI • 48108 | Tel: 800-833-8651 or 800-668-6113 | Fax: 734-668-2793
www.assaydesigns.com | orders@assaydesigns.com | technical@assaydesigns.com
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