

**CYSLTR1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14813c****Specification**

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**CYSLTR1 Antibody (Center) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">O9Y271</a>
Other Accession	<a href="#">NP_006630.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	38541
Antigen Region	144-172

**CYSLTR1 Antibody (Center) - Additional Information****Gene ID** 10800**Other Names**

Cysteinyl leukotriene receptor 1, CysLTR1, Cysteinyl leukotriene D4 receptor, LTD4 receptor, G-protein coupled receptor HG55, HMTMF81, CYSLTR1, CYSLT1

**Target/Specificity**

This CYSLTR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 144-172 amino acids from the Central region of human CYSLTR1.

**Dilution**

WB~~1:1000

IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CYSLTR1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**CYSLTR1 Antibody (Center) - Protein Information****Name** CYSLTR1

## Synonyms CYSLT1

**Function** Receptor for cysteinyl leukotrienes mediating bronchoconstriction of individuals with and without asthma. Stimulation by LTD4 results in the contraction and proliferation of smooth muscle, edema, eosinophil migration and damage to the mucus layer in the lung. This response is mediated via a G-protein that activates a phosphatidylinositol-calcium second messenger system. The rank order of affinities for the leukotrienes is LTD4 >> LTE4 = LTC4 >> LTB4.

## Cellular Location

Cell membrane; Multi-pass membrane protein.

## Tissue Location

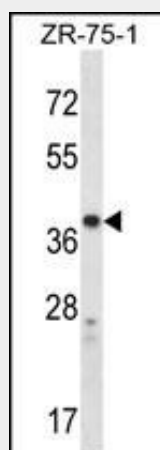
Widely expressed, with highest levels in spleen and peripheral blood leukocytes. Lower expression in several tissues, such as lung (mostly in smooth muscle bundles and alveolar macrophages), placenta, small intestine, pancreas, colon and heart

## CYSLTR1 Antibody (Center) - Protocols

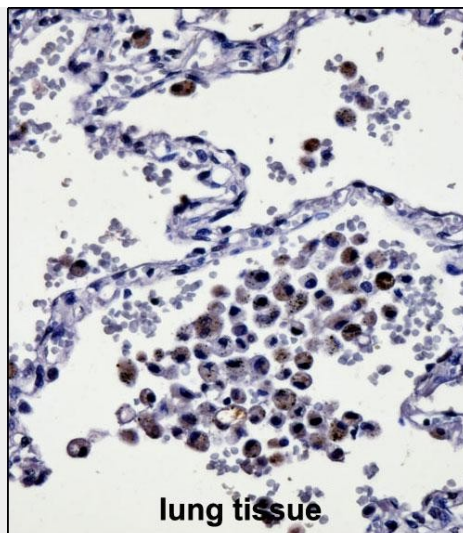
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## CYSLTR1 Antibody (Center) - Images



CYSLTR1 Antibody (Center) (Cat. #AP14813c) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the CYSLTR1 antibody detected the CYSLTR1 protein (arrow).



CYSLTR1 Antibody (Center) (AP14813c) immunohistochemistry analysis in formalin fixed and paraffin embedded human lung tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of CYSLTR1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **CYSLTR1 Antibody (Center) - Background**

The cysteinyl leukotrienes LTC<sub>4</sub>, LTD<sub>4</sub>, and LTE<sub>4</sub> are important mediators of human bronchial asthma. Pharmacologic studies have determined that cysteinyl leukotrienes activate at least 2 receptors, the protein encoded by this gene and CYSLTR2. This encoded receptor is a member of the superfamily of G protein-coupled receptors. Activation of this receptor by LTD<sub>4</sub> results in contraction and proliferation of smooth muscle, oedema, eosinophil migration and damage to the mucus layer in the lung.

#### **CYSLTR1 Antibody (Center) - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Boulay, M.E., et al. Prostaglandins Leukot. Essent. Fatty Acids 83(1):15-22(2010)  
Schuurhof, A., et al. Pediatr. Pulmonol. 45(6):608-613(2010)  
Hasegawa, S., et al. Platelets 21(4):253-259(2010)  
Sokolowska, M., et al. BMC Immunol. 10, 63 (2009) :